LEXIN

Polymers & Resins

Product catalogue · short edition · typical values

725 grades · 14 brands · 8 categories

November 2026

This short edition lists the key values of each series. Full data and every grade are at www.lexinmat.com.

Brand and product names belong to their respective owners.
Unless stated as limits, data are typical values, for guidance only.

Shanghai Lexin Advanced Materials Co., Ltd.
Inquiries: www.lexinmat.com/contact/

Contents

Styrenic block copolymers 155 grades 3

- SIS 40 grades 3
- SBS 37 grades 5
- SIBS 1 grade 7
- SEBS 32 grades 7
- SEP / EP 5 grades 8
- SEPS 8 grades 9
- SEBSS 6 grades 9
- Functionalized SEBS 4 grades 10
- Recycling compatibilizers 5 grades 10
- SBC compounds 10 grades 10
- SEEPS 7 grades 11

Hydrocarbon resins 285 grades 12

- C9 petroleum resins 81 grades 12
- C5 petroleum resins 32 grades 15
- Hydrogenated petroleum resins 51 grades 17
- C5/C9 copolymer resins 28 grades 18
- Other petroleum resins 10 grades 20
- Indene-coumarone resins 11 grades 20
- Modified liquid resins 24 grades 21
- DCPD resins 27 grades 21
- Hydrogenated C5 resins 21 grades 23

Pure monomer resins 49 grades 24

Rosin & derivatives 98 grades 26

- Rosin esters 62 grades 26
- Rosin 10 grades 28
- Hydrogenated rosin esters 13 grades 29
- Hydrogenated rosin 4 grades 30
- Rosin derivatives 9 grades 31

Terpene resins 44 grades 32

- Terpene resins 22 grades 32
- Terpene phenolic resins 22 grades 33

Polyolefins 57 grades 34

- APAO 12 grades 34
- Functionalized polyolefins 4 grades 34
- EVA copolymers 28 grades 35
- EnBA copolymers 2 grades 35
- EMA resins 4 grades 36
- Vistamaxx performance polymers 7 grades 36

Polyisobutylene 2 grades 37

Other specialties 35 grades 38

- Polyisoprene (IR) 5 grades 38
- Waterborne tackifier dispersions 13 grades 38
- Water-dispersible polyesters 8 grades 39
- Non-reactive modifiers 4 grades 39
- Epoxy modifier resins 4 grades 39
- Antioxidants 1 grade 40

Styrenic block copolymers 155 grades

SIS 40 grades

Typical uses: tape, label and hygiene adhesives, elastic films, flexographic plates, vibration damping.

Kraton

Kraton D SIS

SIS block copolymers for adhesives, elastic films and flexographic plates.

Grade	Hardness, Shore A	Brookfield viscosity (25wt%), mPa.s	MFR 200°C/5kg	Styrene/rubber ratio	Diblock, %	Polymer structure	Physical form
D1111	45	1100	3	22/78	18	Linear	Porous
D1113	23	600	17	16/84	55	Linear	Dense
D1114	42	900	9	19/81	<1	Linear	Dense
D1117	33	500	27	17/83	33	Linear	Dense
D1119	30	350	23	22/78	66	Linear	Dense
D1124	54	350	4	30/70	30	Radial	Dense
D1161	32	1200	12	15/85	19	Linear	Porous or dense (Po)&(D)
D1162	86	120	44	44/56	<1	Linear	Dense
D1163	25	900	22	15/85	38	Linear	Dense
D1164	53	300	12	29/71	<1	Linear	Dense
D1165	59	350	7	30/70	20	Linear	Dense
D1193	53	400	14	24/76	20	Linear	Dense

Kraton D

Unhydrogenated SBC, in SIS and SBS grades, for paving, roofing, adhesives and sealants.

Grade	Type	Polymer structure	Hardness, Shore A	Brookfield viscosity, cps	MFR 200°C/5kg	Oil content, %	Styrene/rubber ratio
D1126P	(SI)n	Radial	44	500	15	0	19/81
D4433P	SIS	Linear	29	350	29	23	22/78

TSRC

VECTOR SIS

SIS mainly for tape, label and hygiene adhesives, with some grades for elastic films and flexography.

Grade	Polymer structure	Styrene, wt%	Diblock, wt%	MFR 200°C/5kg	Solution viscosity, cps	Hardness, Shore A	Physical form	Applications
4111A / 4111N	Linear	18	<1	12	850	40	Dense / Porous Pellet	Elastic films, packaging, flexography, hygiene adhesives, tape adhesives, label adhesives
4113A / 4113N	Linear	15	18	11	1240	33	Dense / Porous Pellet	Elastic films, flexography, hygiene adhesives, tape adhesives, label adhesives
4114A / 4114N	Linear	15	42	25	700	26	Dense / Porous Pellet	Tape adhesives, label adhesives
4186A	Radial	18	73	22	540	28	Dense Pellet	Tape adhesives
4187A	Radial	18	78	13	630	25	Dense Pellet	Tape adhesives

Grade	Polymer structure	Styrene, wt%	Diblock, wt%	MFR 200°C/5kg	Solution viscosity, cps	Hardness, Shore A	Physical form	Applications
4211A / 4211N	Linear	30	<1	13	300	60	Dense / Porous Pellet	Elastic films, hygiene adhesives, tape adhesives, compounding
4213N	Linear	25	25	12	370	51	Dense / Porous Pellet	Hygiene adhesives, tape adhesives, label adhesives
4215A	Linear	30	18	9	300	58	Dense Pellet	Hygiene adhesives
4255A	Radial	20	30	13	540	47	Dense Pellet	Tape adhesives
4293A	Radial	30	25	11	280	61	Dense Pellet	Hygiene adhesives
4411A	Linear	44	<1	40	120	83	Dense Pellet	Elastic films, hygiene adhesives, plastic modification
4116N	Linear	16	55	12	780	33	Dense / Porous Pellet	Tape adhesives
DP-4120	Hybrid	14	12	10	1264	39	Porous Pellet	Tape adhesives

Kuraray

HYBRAR 5000

Unhydrogenated vinyl-rich SIS with high vibration damping, for sports equipment, sound-deadening seals, adhesives and automotive parts.

Grade	Type	Styrene, %	Tg °C	MFR 190°C/2.16kg	Physical form	Hardness, JIS A
HYBRAR 5125	Vinyl-bond rich SIS	20	-13	4	Pellet	60
HYBRAR 5127	Vinyl-bond rich SIS	20	8	5	Pellet	84

Zeon

Quintac

SIS thermoplastic elastomers; G and E after a melt index are the test conditions; the figures are design values.

Grade	Polystyrene structure	Styrene, %	Coupling ratio, %	Melt index, g/10min	Applications
Quintac 3421	Symmetric	14	74.00	10.0 (condition G)	Hot-melt adhesives; standard grade with balanced adhesive properties
Quintac 3620	Symmetric	14	88.00	9.0 (condition G)	Hot-melt adhesives; standard grade with balanced adhesive properties
Quintac 3433N	Symmetric	16	44.00	12.0 (condition G)	Hot-melt adhesives; low-modulus grade with very good adhesion for sealing corrugated board
Quintac 3520	Symmetric	15	22.00	6.5 (condition G)	Hot-melt adhesives; low-modulus grade with very good adhesion for sealing corrugated board
Quintac 3450	Symmetric	19	70.00	3.0 (condition E)	Hot-melt adhesives; low-viscosity grade with high holding power
Quintac 3270	Symmetric	24	33.00	20.0 (condition G)	Hot-melt adhesives; grade for strong bonding
Quintac 3280	Symmetric	25	83.00	12.0 (condition G)	Hot-melt adhesives; standard grade with balanced adhesive properties
Quintac 3440	Symmetric	18	—	9.0	Hot-melt adhesives; flexographic plates and films
Quintac 3190	Asymmetric	30	—	15.0 (condition G)	Label adhesives; strong-bonding grade with very good oil retention

Grade	Polystyrene structure	Styrene, %	Coupling ratio, %	Melt index, g/10min	Applications
Quintac 3290	Asymmetric	35	—	10.0	Films
Quintac 3390	Asymmetric	48	—	14.0 (condition G)	Films

SBS 37 grades

Typical uses: asphalt modification for paving and roofing, footwear, adhesives, flexographic plates, elastic films, clear rigid packaging, plastic modification.

Kraton

Kraton D SBS

SBS block copolymers for asphalt modification in paving and roofing, footwear, adhesives and clear rigid packaging.

Grade	Hardness, Shore A	Brookfield viscosity (25wt%), mPa.s	MFR 200°C/5kg	Styrene/rubber ratio	Diblock, %	Polymer structure	Oil content, %
D0243	70	300	20	33/67	75	Diblock	—
D1101	72	4000	<1	31/69	16	Linear	—
D1102	63	1000	14	29/71	16	Linear	—
D1116	63	9000	<1	23/77	16	Radial	—
D1118	74	630	10	33/67	78	Diblock	—
D1152	70	1200	7	30/70	15	Linear	—
D1155	87	600	11	40/60	<1	Linear	—
MD1156	—	600	8	40/60	<1	Linear	—
D1157	70	1600	5	29/71	<1	Linear	—
D1184	74	>20000	<1	31/69	16	Radial	—
D1191	70	>20000	<1	33/67	18	Radial	—
D1192	70	1500	<1	30/70	<1	Linear	—
D1194	68	—	<1	31/69	18	Radial	—
MD1195	70	—	<1	29/71	—	Linear	—
D4150	45	—	10	31/69	—	Linear	33
D4153	45	—	30	35/65	—	Linear	30.5
D4270	46	—	15	32/68	—	Radial	31

Kraton D

Unhydrogenated SBC, in SIS and SBS grades, for paving, roofing, adhesives and sealants.

Grade	Type	Polymer structure	Hardness, Shore A	Brookfield viscosity, cps	MFR 200°C/5kg	Oil content, %	Styrene/rubber ratio
D1133K	SBS	Linear	74	4800	<1	0	36/64
D1153E	SBS	Linear	70	1650	3	0	29/71
D4141K	SBS	Linear	50	1000	11	28.5	31/69
D1450K	SBS	Linear	45	850	10	33	31/69
D4158K	(SB)n	Radial	41	4800	<1	33	31/69

Kraton D

Unhydrogenated SBC, in SIS and SBS grades, for paving, roofing, adhesives and sealants.

Grade	Polymer structure	Flexural modulus, psi	Heat deflection temperature, °C (66psi)	Shore hardness	Brookfield viscosity, cps	MFR 200°C/5kg	Oil content, %
D1403P	Radial	270000	80	65D	220	11	0
D1493P	Radial	270000	80	65D	220	11	0

TSRC

VECTOR SBS

SBS mainly for asphalt and plastic modification, with some grades for packaging, hygiene adhesives and compounding.

Grade	Polymer structure	Styrene, wt%	Oil content, wt%	Diblock, wt%	MFR 200°C/5kg	Solution viscosity, cps	Hardness, Shore A	Applications
2336A	Radial	30	0	12	<1	16.6*	82	Asphalt modification
2411A	Radial	30	0	12	<1	20.4*	82	Asphalt modification
2411AP	Radial	30	0	12	<1	20.4*	82	Asphalt modification
2518A / 2518ALD	Linear	31	0	<1	<1	3900	80	Plastic modification, asphalt modification
2518AP / 2518APC	Linear	31	0	<1	<1	3900	80	Plastic modification, asphalt modification
6241A	Linear	43	0	<1	23	350	85	Packaging, hygiene adhesives, plastic modification
7000	Linear	31	16.5	<1	17	685	58	Compounding, plastic modification
8508A	Linear	29	0	<1	12	1130	67	Plastic modification

Solution viscosity in 25 wt% toluene; values marked * in 5 wt%.

TAIPOL SBS

SBS for packaging, hygiene adhesives, flexography, compounding and plastic modification.

Grade	Polymer structure	Styrene, wt%	Diblock, wt%	MFR 190°C/5kg	Solution viscosity, cps	Hardness, Shore A	Physical form	Applications
3201	Linear	28.5-31.5	18	<1	7.5-11.5*	72	Porous pellet	Packaging, compounding, plastic modification, asphalt modification
3206	Linear	27.5-30.5	18	3.0-9.0	850	72	Porous pellet	Packaging, flexography, hygiene adhesives, compounding, plastic modification
4202	Linear	40	<1	7	620	92	Porous pellet	Packaging, flexography, hygiene adhesives, compounding, plastic modification
4230	Linear	37.5	—	13	520	87	Porous pellet	Hygiene adhesives
4270	Linear	36-38	70	16-25	—	86	Porous pellet	Hygiene adhesives, label adhesives

Solution viscosity in 25 wt% toluene; values marked * in 5 wt%.

SIBS 1 grade

Kraton

Kraton D SIBS

SIBS block copolymer, clear and sprayable, for adhesives.

Grade	Hardness, Shore A	Brookfield viscosity (25wt%), mPa.s	MFR 200°C/5kg	Styrene/rubber ratio	Diblock, %	Polymer structure	Physical form
D1171	45	1000	11	20/80	26	Linear	Dense

SEBS 32 grades

Typical uses: soft-touch handles, 2K overmolding on polyolefins, elastic films, automotive interior and exterior parts, cable gels, adhesives, packaging, compounding.

Kraton

Kraton G SEBS

SEBS block copolymers for soft-touch handles, 2K overmolding on polyolefins, elastic films, automotive parts and adhesives.

Grade	Hardness, Shore A	Brookfield viscosity (25wt%), mPa.s	MFR 200°C/5kg	MFR 230°C/5kg	Styrene/rubber ratio	Diblock, %	Oil content, %
G1633	—	>50000	<1	<1	30/70	<1	—
G1650	70	8000	<1	<1	30/70	<1	—
G1651	60	>50000	<1	<1	33/67	<1	—
G1652	70	1500	<1	5	30/70	<1	—
G1653	70 (30 s indentation)	440	8	31 (230°C/2.16kg)	31/69	<7	—
G1654	63	>50000	<1	<1	31/69	<1	—
G1657	47	4200	8	22	13/87	30	—
G1660	68	8000	<1	<1	31/69	<1	—
G1726	60	200	65	>100	30/70	70	—
G4609	22	11000	<1	<1	33/67	<1	45
G4610	36	>50000	<1	<1	33/67	<1	31

Kraton G ERS

SEBS with an enhanced rubber segment, softer than standard Kraton G and more compatible with PP, for protective films, automotive skins, elastic films and adhesives.

Grade	Hardness, Shore A	MFR 230°C/2.16kg	MFR 230°C/5kg	Styrene/rubber ratio	Diblock, %	Physical form
MD1623	45	—	>1500	34/66	—	Dense
G1640	60	<1	<1	32/68	<1	Crumb
G1641	52	<1	<1	33/67	<1	Powder
G1642	48	<1	<1	21/79	<1	Powder
G1643	52	19	75	19/81	<7	Dense
G1645	35	3.5	13	13/87	<7	Dense
G1646	35	12	—	13/87	<7	Dense
G1648	52	220	—	20/80	<7	Dense

TSRC

TAIPOL, VECTOR SEBS

SEBS for compounding, plastic modification, elastic films and packaging.

Grade	Polymer structure	Styrene, wt%	Diblock, wt%	MFR 230°C/2.16kg	Solution viscosity, cps	Hardness, Shore A	Physical form	Applications
6014	Linear	16.5-19.5	<1	5	—	70	Porous Pellet	Elastic films, hygiene adhesives, label adhesives, compounding, plastic modification
6150	Linear	27.5-30.5	<1	—	1000-1900**	76	Powder	Elastic films, packaging, compounding, plastic modification, asphalt modification
6151	Linear	31-34	<1	—	1700	—	Powder	Elastic films, packaging, compounding, plastic modification
6152	Linear	27.5-30.5	<1	4	350-530**	76	Porous Pellet / Powder	Packaging, hygiene adhesives, label adhesives, compounding, plastic modification
6153	Linear	27.5-30.5	<1	—	2000-3000**	76	Powder	Elastic films, packaging, compounding, plastic modification, asphalt modification
6154	Linear	31-34	<1	—	200-360	—	Powder	Compounding
6159	Linear	28-31	<1	—	320*	—	Powder	Compounding
7126	SEBS grafted MA/linear	—	<1	20*	—	73	Dense Pellet	Compounding, plastic modification
7131	SEBS grafted MA/linear	27.5-30.5	<1	10*	—	75	Dense Pellet	Compounding, plastic modification
8101	Linear	31-34	<1	—	1700	—	Powder	Elastic films, packaging, compounding, plastic modification, medical

Solution viscosity in 10 wt% toluene; values marked * in 5 wt%, ** in 20 wt%. MFR values marked * are at 230°C/5kg.

Kuraray

SEPTON 8000

SEBS with moderate tensile strength, for adhesives, automotive and personal care.

Grade	Type	Styrene, %	MFR 230°C/2.16kg	MFR 200°C/10kg	Physical form	Hardness, JIS A
SEPTON 8004	SEBS	31	<0.1	<0.1	Powder	80
SEPTON 8006	SEBS	33	No flow	No flow	Powder	—
SEPTON 8007	SEBS	30	2	—	Pellet	77

SEP / EP 5 grades

Typical uses: adhesives, clear sealants, automotive parts, cable insulation, unsaturated polyester modification, base oil modification.

Kraton

Kraton G EP & SEPS

EP and SEPS grades for base oil modification, gels and adhesives.

Grade	Hardness, Shore A	Brookfield viscosity (25wt%), mPa.s	MFR 200°C/5kg	MFR 230°C/5kg	Styrene/rubber ratio	Diblock, %	Oil content, %
G1701	64	>50000	<1	<1	37/63	100	—
G1702	41	50000	<1	<1	28/72	100	—
G1750	11	9000	8	—	0/100	—	—
G1765	12	13000	4	—	0/100	—	12

Kuraray

SEPTON 1000

SEP with high clarity and good flow, for adhesives, clear sealants, automotive parts and cable insulation.

Grade	Type	Styrene, %	MFR 200°C/10kg	Physical form	Hardness, JIS A
SEPTON 1020	SEP	36	1.8	Powder	70

SEPS 8 grades

Typical uses: automotive parts, films, specialty adhesives, vibration damping.

Kraton

Kraton G EP & SEPS

EP and SEPS grades for base oil modification, gels and adhesives.

Grade	Hardness, Shore A	Brookfield viscosity (25wt%), mPa.s	MFR 200°C/5kg	MFR 230°C/5kg	Styrene/rubber ratio	Diblock, %	Physical form
G1730	61	2000	3	11	20/80	<1	Dense

Kuraray

SEPTON 2000

SEPS with good tensile and low-temperature properties across a wide hardness range, for personal care, automotive, films and specialty adhesives.

Grade	Type	Styrene, %	MFR 230°C/2.16kg	MFR 200°C/10kg	Physical form	Hardness, JIS A
SEPTON 2002	SEPS	30	70	100	Pellet	80
SEPTON 2004	SEPS	18	5	—	Pellet	67
SEPTON 2005	SEPS	20	No flow	No flow	Powder	—
SEPTON 2006	SEPS	35	No flow	No flow	Powder	—
SEPTON 2063	SEPS	13	7	22	Pellet	36
SEPTON 2104	SEPS	65	0.4	22	Pellet	98

HYBRAR 7000

Hydrogenated vinyl-rich grades that mix well with PP; soft films can replace PVC.

Grade	Type	Styrene, %	Tg °C	MFR 190°C/2.16kg	MFR 230°C/2.16kg	Physical form	Hardness, JIS A
HYBRAR 7125	Vinyl-bond rich SEPS	20	-15	0.7	4	Pellet	64

SEBSS 6 grades

Typical uses: wire and cable, 2K overmolding, protective films, consumer goods.

Kraton

Kraton A SEBSS

SEBSS block copolymers with good flow and compatibility with polystyrene and polar polymers, for wire and cable, 2K overmolding, protective films and consumer goods.

Grade	Hardness, Shore A	MFR 230°C/2.16kg	MFR 260°C/5kg	Styrene/rubber ratio	Diblock, %	Physical form
A1535	83	<1	<1	58/42	<1	Powder
A1536	65	<1	7	42/58	<1	Powder
A1537	78	<1	5	60/40	<1	Powder
MD6951	46	48	—	35/65	<7	Dense
MD1542	44	13	—	29/71	—	Dense
MD7501	86	3 (measured at 190°C)	—	48/52	—	Dense

Functionalized SEBS 4 grades

Typical uses: natural fiber composites, adhesives, compatibilizing mixed recycled streams, coatings, engineering plastics, tie layers.

Kraton

Kraton FG

Maleic anhydride functionalized SEBS for bonding polar substrates, reinforcing engineering plastics, tie layers and compatibilizing mixed recycle.

Grade	Hardness, Shore A	MFR 230°C/5kg	Styrene/rubber ratio	Bound MA content, %w	Physical form
FG1901	71	22	30/70	1.7	Dense
FG1924	50	40	13/87	1	Dense
MD6684	63	<1	32/68	1	Powder
MD6186	48	75 (230°C/2.16kg)	34/66	1	Dense

Recycling compatibilizers 5 grades

Typical uses: compatibilizing mixed recycled plastics, upgrading recycled resin and bioplastics.

Kraton

CirKular+

Compatibilizers and performance upgrades for virgin resin, bioplastics and post-consumer or post-industrial recycle.

Grade	Series	Max. processing temperature, °C	MFR 230°C/5kg	Polyolefins	PS/HIPS	EVA	EVOH/PVA
C1000	Compatibilization series	280	22	✓	✓	✓	✓
C1010	Compatibilization series	280	34	✓	✓	✓	✓
C1010 (50% Recycled)	Compatibilization series	280	34	✓	✓	✓	✓
C2000	Performance enhancement series	280	24	✓	✓	✓	✓
C3000	Performance enhancement series	200	11 (200°C/5kg)	✓	✓	✓	–

SBC compounds 10 grades

Typical uses: automotive parts, sporting goods, injection molded parts, films, packaging, asphalt modification.

Kraton

Kraton D Compounds

Blends of SBC with other ingredients, soft to the touch and ready for injection molding or extrusion.

Grade	Hardness, Shore A	Tear strength, pli	MFR 200°C/5kg	Physical form	Color	Ozone resistance (stressed/unstressed)
D2104Z	Injection molded 39 / extruded 41	200	22	Dense pellet	Colorless, transparent	Poor / fair
D2109Z	Extruded 48	110	15	Dense pellet	White or natural	Poor / fair
D2122	Injection molded 52	180	21	Dense pellet	Natural	Poor / fair
D3158	Compression molded 39	–	–	Porous pellet	Black	–

Kraton G Compounds

SBC compounds with good low-temperature flexibility, ready for injection molding or extrusion.

Grade	Hardness	Tear strength, pli	MFR 200°C/5kg	Physical form	Color	Ozone resistance (stressed/unstressed)
G2705	Injection molded 55A / extruded 54A	140	—	Dense pellet	Translucent	High / high
G2832	Extruded 44A	—	13	Dense pellet	Translucent	High / high
G7705	Injection molded 45A	100	—	Dense pellet	Natural or black	High / high
G7720	Injection molded 60A	130	—	Dense pellet	Natural or black	High / high
G7723X	Extruded 78A (compression molded at 400°F)	—	<1	Dense pellet	Amber	High / high
G7820	Injection molded 91A / 41D	280	—	Dense pellet	Natural or black	High / high

SEEPS 7 grades

Typical uses: gels, films, automotive parts, PVC-replacement compounds, polar resin modification.

Kuraray

SEPTON 4000

SEEPS with high tensile strength and strong oil absorption, for gels, films and automotive parts; its compounds can replace PVC.

Grade	Type	Styrene, %	MFR 230°C/2.16kg	MFR 200°C/10kg	Physical form	Hardness, JIS A
SEPTON 4033	SEEPS	30	<0.1	<0.1	Powder	76
SEPTON 4044	SEEPS	32	No flow	No flow	Powder	—
SEPTON 4055	SEEPS	30	No flow	No flow	Powder	—
SEPTON 4077	SEEPS	30	No flow	No flow	Powder	—
SEPTON 4099	SEEPS	30	No flow	No flow	Powder	—

SEPTON HG252

SEEPS with a functional group at one chain end, used as a modifier for polar resins and a compatibilizer between polar and non-polar resins.

Grade	Type	Styrene, %	MFR 230°C/2.16kg	MFR 200°C/10kg	Physical form	Hardness, JIS A
SEPTON HG252	SEEPS-OH	28	26	–	Pellet	80

HYBRAR 7000

Hydrogenated vinyl-rich grades that mix well with PP; soft films can replace PVC.

Grade	Type	Styrene, %	Tg °C	MFR 190°C/2.16kg	MFR 230°C/2.16kg	Physical form	Hardness, JIS A
HYBRAR 7311	Vinyl-bond rich SEEPS	12	-32	0.5	2	Pellet	41

Hydrocarbon resins 285 grades

C9 petroleum resins 81 grades

Typical uses: adhesives, coatings, lithographic inks, rubber and PVC processing aids, road marking.

Synthomer

Picco

Aromatic hydrocarbon resins mainly for inks and adhesives, also for coatings, rubber and asphalt.

Grade	Softening point, °C	Gardner color	DACP	EMDA	MMAP	Applications
Picco A10	Liquid	9 (neat)	-24	106	—	Tackifying plasticizer, inks
Picco AR85	87	9	<-40	39	3	Solvent-based PSA
Picco AR100	100	8	<-40	43	4	Solvent-based PSA
Picco A100	101	9	<-40	58	—	Adhesives, rubber, inks, flooring
Picco A120 PI	120	6	—	—	—	Inks
Picco A120	125	8	<-40	56	2	Adhesives, coatings, asphalt
Picco A130	135	6	—	—	—	Inks
Picco A140 PI	138	6	—	—	—	Inks
Picco A140	142	8	<-40	74	3	Inks

Plastolyn

Hydrocarbon resins for plastic modification, contact adhesives and footwear, and as reinforcing resins in hot-melt adhesives.

Grade	Subcategory	Softening point, °C	Color, YID	DACP	MMAP	Applications
Plastolyn 240	Aromatic resin	121	11	<-50	8	Plastic modification, contact adhesives, footwear, reinforcing resin for hot-melt adhesives
Plastolyn 290	Aromatic resin	140	13	-44	9	Plastic modification, contact adhesives, footwear, reinforcing resin for hot-melt adhesives
Plastolyn 290 LV	Aromatic resin	140	7	<-40	8	Plastic modification, contact adhesives, hot-melt adhesives, footwear

RÜTGERS

NOVARES T, TT, TD

General-purpose C9 hydrocarbon resins with a broad range of uses.

Grade	Softening point, °C	Typical color (Gardner 50% toluene)	Product color (Gardner 50% toluene)
NOVARES TT 30	20-30	9	max.16
NOVARES T 85	82-90	12	max.15
NOVARES TD 90	85-95	8	6-14
NOVARES TT 90	87-95	8	max.9
NOVARES T 95	90-100	10	max.15
NOVARES T 100	95-105	8	max.11
NOVARES TT 100	95-105	7	max.9
NOVARES TD 100	95-105	7	max.9
NOVARES TT 120	115-125	6	max.9
NOVARES TT 120 H	115-125	5	max.6
NOVARES TD 120	115-125	7	max.10
NOVARES T 140	135-145	8	max.11
NOVARES TT 140	135-145	8	max.9

NOVARES TA, TNA

Phenol modified C9 hydrocarbon resins.

Grade	Softening point, °C	OH content, %	Typical color (Gardner 50% toluene)	Product color (Gardner 50% toluene)
NOVARES TA 100	95-105	0.7-1.0	7	max.9
NOVARES TA 120	115-125	app.1.0	6	max.9
NOVARES TNA 120	115-125	app.1.2	7	max.10

NOVARES TL

Hydrocarbon resins based on selected C9 fractions.

Grade	Softening point, °C	Typical color (Gardner 50% toluene)	Product color (Gardner 50% toluene)
NOVARES TL 10	liquid	8*	max.12*
NOVARES TL 90	85-95	6	max.9
NOVARES TL 100	95-105	6	max.9
NOVARES TL 120	115-125	6	max.9

Colors marked * were measured undiluted.

NOVARES TN

Resins based on selected C9 fractions, with good EVA compatibility and good solubility in many solvents.

Grade	Softening point, °C	Typical color (Gardner 50% toluene)	Product color (Gardner 50% toluene)
NOVARES TN 15	liquid	9*	max.15*
NOVARES TN 100	95-105	7	max.7
NOVARES TN 110	105-110	6	max.8
NOVARES TN 120	115-123	7	max.8
NOVARES TN 140	135-145	7	max.7
NOVARES TN 150	145-150	7	max.8
NOVARES TN 160	155-160	6	max.8
NOVARES TN 160 T	155-165	7	max.8
NOVARES TN 170	165-175	6	max.7

Colors marked * were measured undiluted.

NOVARES TK, TP, TS

Aliphatic modified C9 resins with better compatibility with wax, EVA and block copolymers and better solubility in non-aromatic solvents and mineral oil.

Grade	Softening point, °C	Typical color (Gardner 50% toluene)	Product color (Gardner 50% toluene)
NOVARES TK 90	85-95	8	max.10
NOVARES TP 100	95-105	6	max.8
NOVARES TK 100	100-105	8	max.9
NOVARES TK 100 H	100-105	5	max.6
NOVARES TK 120	115-125	8	max.10
NOVARES TS 120	115-125	8	max.8
NOVARES TS 140	135-145	6	max.8

NOVARES TV

Resins based on selected C9 fractions, with good compatibility with EVA, wax and mineral oil.

Grade	Softening point, °C	Typical color (Gardner 50% toluene)	Product color (Gardner 50% toluene)
NOVARES TV 90	90-95	<6	max.6
NOVARES TV 100	95-105	7	max.9
NOVARES TV 120	115-125	7	max.10

Cray Valley

Norsolene S

General-purpose aromatic resins used as processing aids for PVC and rubber, and in hot-melt and solvent adhesives, solvent paints and offset inks.

Grade	Appearance	Softening point, °C	Gardner color (50% toluene)	Tg °C
Norsolene S-85	Yellow solid	87	6.5	45
Norsolene S-95	Yellow solid	97	6.5	46
Norsolene S-105	Yellow solid	106	6.5	55
Norsolene S-115	Yellow solid	115	6.5	65
Norsolene S-125	Yellow solid	125	6.5	71
Norsolene S-135	Yellow solid	133	6.5	82
Norsolene S-145	Yellow solid	143	6.5	92
Norsolene S-155	Yellow solid	152	6.5	104

Neville

NP, NEVPENE, NEVEX, NEVCHEM

Liquid and solid C9 resins and modified grades for marine and industrial maintenance coatings, PSA, EVA hot-melt adhesives and construction adhesives.

Grade	Type	Softening point, °C	Gardner color (50%)	Brookfield viscosity, cps	Applications
NP-10	Liquid C9	11	11.5	@120°F = 2,100	Coatings: industrial and maintenance, interior wood; Adhesives & sealants: PSA (SIS/SBS), PSA (natural rubber), construction adhesives
NP-25	Liquid C9	24	12	@120°F = 12,000	Coatings: industrial and maintenance, interior wood; Adhesives & sealants: PSA (SIS/SBS), PSA (natural rubber), construction adhesives
NEVEX 045	Liquid C9 modified	15	10	@25°C = 50,000	Coatings: industrial and maintenance, polyurethane, epoxy
NEVEX 100	C9/pure monomer	98	11	N/A	Coatings: marine, industrial and maintenance, aluminum/bronze paint, epoxy; Adhesives & sealants: PSA (SBR), EVA hot melt, contact adhesives, construction adhesives, mastics, epoxy
NEVCHEM 200	C9	101	5	@160°C = 950	Coatings: marine, industrial and maintenance, aluminum/bronze paint, road marking, alkyd, epoxy; Adhesives & sealants: PSA (SBR), EVA hot melt, contact adhesives, construction adhesives, mastics, epoxy
NEVCHEM 300	C9	102	11	@140°C = 5,500	Coatings: marine, industrial and maintenance, aluminum/bronze paint, road marking, alkyd, epoxy; Adhesives & sealants: PSA (SBR), EVA hot melt, contact adhesives, construction adhesives, mastics, epoxy
NEVCHEM 100	C9/DCPD	104	12.5	@160°C = 1,670	Coatings: marine, industrial and maintenance, aluminum/bronze paint, alkyd; Adhesives & sealants: PSA (SBR), contact adhesives, construction adhesives, mastics
NEVCHEM 110	C9/DCPD	114	13	@170°C = 1,640	—
NEVCHEM 220	C9	117	5	@160°C = 2,520	—
NEVCHEM 120	C9/DCPD	120	12.5	@160°C = 10,300	Inks: dispersion vehicles, flushing vehicles
NEVCHEM 320	C9	120	11	@200°C = 400	Adhesives & sealants: PSA (SIS/SBS), PSA (SBR), EVA hot melt, contact adhesives, construction adhesives, mastics, epoxy
NEVCHEM 130	C9/DCPD	130	13	@180°C = 3,525	—
NEVCHEM 330	C9	130	10	@200°C = 600	Adhesives & sealants: PSA (SIS/SBS), PSA (SBR), EVA hot melt, contact adhesives, construction adhesives, mastics, epoxy
NEVCHEM 240	C9	136	7	@200°C = 750	Adhesives & sealants: PSA (SIS/SBS), contact adhesives
NEVCHEM 140	C9/DCPD	140	12.5	@180°C = 8,375	Adhesives & sealants: contact adhesives, construction adhesives, mastics; Inks: coldset, dispersion vehicles, flushing vehicles, heatset gel
NEVCHEM 340	C9	140	9	@200°C = 800	Adhesives & sealants: PSA (SIS/SBS), contact adhesives
NEVCHEM 150	C9/DCPD	150	13	@210°C = 1,625	—

NEVCHEM

C9 resin for marine, industrial maintenance and road marking coatings, SIS/SBS PSA and contact adhesives.

Grade	Applications
NEVCHEM 250	Coatings: marine, industrial and maintenance, aluminum/bronze paint, road marking, epoxy; Adhesives & sealants: PSA (SIS/SBS), contact adhesives

CUMAR

Aromatic hydrocarbon resins for marine and industrial maintenance coatings; liquid grades also serve SBR PSA and construction adhesives.

Grade	Type	Softening point, °C	Gardner color (50%)	Brookfield viscosity, cps	Applications
CUMAR P-10	Liquid aromatic	13	11	@120°C = 1,300	Coatings: marine, industrial and maintenance, polyurethane, epoxy; Adhesives & sealants: PSA (SBR), construction adhesives, latex SBR mastics, epoxy
CUMAR P-25	Liquid aromatic	24	11	@120°C = 6,500	Coatings: marine, industrial and maintenance, polyurethane, epoxy; Adhesives & sealants: PSA (SBR), construction adhesives, latex SBR mastics, epoxy
CUMAR 105	Aromatic	104	11	@160°C = 1,065	Coatings: marine, industrial and maintenance, concrete curing, aluminum/bronze paint, epoxy
CUMAR 130	Aromatic	130	10	@160°C = 22,800	Coatings: marine, aluminum/bronze paint, epoxy

C5 petroleum resins 32 grades

Typical uses: hot-melt and pressure-sensitive adhesives, tapes, labels, packaging, bookbinding, hot-melt road marking, tires.

Synthomer

Piccotac

Aliphatic hydrocarbon resins mainly for hot-melt adhesives and PSA, also for hot-melt road marking.

Grade	Softening point, °C	Gardner color	DACP	EMDA	MMAP	Applications
Piccotac 1020	5	3 (neat)	43	174	92	Tackifying plasticizer
Piccotac 7590-N	91	2	22	144	62	Hot-melt adhesives and hot-melt PSA
Piccotac 1095	94	3	52	179	94	Hot-melt adhesives and solvent-based PSA
Piccotac 9095	94	3	47	—	88	Hot-melt adhesives and solvent-based PSA
Piccotac 8595	95	3	40	—	82	Hot-melt adhesives and solvent-based PSA
Piccotac 8095	95	3	38	—	76	Hot-melt adhesives and solvent-based PSA
Piccotac 1098	100	3	57	188	94	Solvent-based PSA
Piccotac 1100	100	3	62	193	96	Hot-melt road marking
Piccotac 9105	105	2	60	—	92	Hot-melt adhesives
Piccotac 1115	110	3	69	194	99	Hot-melt PSA

ExxonMobil

Escorez 1000

Aliphatic resins for packaging, tapes, labels, sealants, road marking and tires.

Grade	Softening point, °C	Tg °C
Escorez 1310	92.7	43
Escorez 1204LS	93.8	47
Escorez 1102	98.7	46
Escorez ECR288S	99.5	52
Escorez 1304	99.7	51
Escorez 1401	118.4	69

Cray Valley

Wingtack

C5 tackifying resins with low odor and color, some modified with pure monomer C9, for adhesives.

Grade	Appearance	Softening point, °C	Gardner color (50% toluene)	Tg °C
Wingtack 10	Light yellow liquid	10	1.5	-31
Wingtack 95	Light yellow solid	98	1.7	52
Wingtack RWT-7850	Light yellow solid	102	2.4	56

Neville

NEVTAC

C5 aliphatic resins for SIS/SBS and natural rubber PSA and EVA hot-melt adhesives.

Grade	Type	Softening point, °C	Gardner color (50%)	Brookfield viscosity, cps	Applications
NEVTAC LT	Liquid C5	8	4.5	@30°C = 24,000	—
NEVTAC 10	Liquid C5	12	5.5	@25°C = 76,000	—
NEVTAC 100	C5	100	3.5	@175°C = 430	Coatings: industrial and maintenance, road marking, exterior wood; Adhesives & sealants: PSA (SIS/SBS), PSA (natural rubber), EVA hot melt

VERSADIL

C5 resin diluents for industrial maintenance, exterior wood and polyurethane coatings.

Grade	Resin	Gardner color	Brookfield viscosity, cps @25°C	Applications
VERSADIL 100	C5	4.5	650	—
VERSADIL 1100	C5	5.5	1650	Coatings: industrial and maintenance, exterior wood, polyurethane

Zeon

Quintone 100 series

Aliphatic resins based mainly on 1,3-pentadiene; the figures are design values.

Grade	Type	Softening point, °C (ring and ball)	Gardner color (converted)	Acid number, mgKOH/g	Applications
Quintone B170	Aliphatic	70.0	2.5	—	Special grade for adhesives that need low-temperature performance.
Quintone M100	Aliphatic	95.0	3.0	—	Standard grade for SIS-based adhesives.
Quintone R100	Aliphatic	96.0	2.5	—	Standard grade for SIS-based adhesives.
Quintone CX495	Aliphatic	96.0	0.9	1.8	Low-color grade, especially for flowable white road marking.
Quintone A100	Aliphatic	100.0	2.5	—	General-purpose grade for natural rubber-based adhesives.
Quintone C200H	Aliphatic	101.0	2.5	1.7	General-purpose grade with very good flow, heat stability and color; for road marking.
Quintone RX110	Aliphatic	110.0	1.5	—	Low-color, heat-resistant grade for paraffin wax-based adhesives.
Quintone C210	Aliphatic	110.0	2.5	1.7	General-purpose grade with very good flow, heat stability and color; for road marking.

Hydrogenated petroleum resins 51 grades

Typical uses: packaging, nonwovens, assembly, bookbinding, woodworking, glue sticks, hot-melt PSA, sealants, plastic modification.

Synthomer

Eastotac

Hydrogenated hydrocarbon resins for packaging, assembly and nonwoven adhesives and hot-melt PSA.

Grade	Softening point, °C	Gardner color	DACP	MMAP	Applications
Eastotac C-100R	100	1.5	56	78	Packaging, nonwovens, assembly, hot-melt PSA
Eastotac C-100L	100	<1	57	81	Packaging, nonwovens, assembly, hot-melt PSA
Eastotac C-100W	100	<1	64	83	Packaging, nonwovens, assembly, glue sticks, hot-melt PSA
Eastotac H-100R	100	1.5	68	79	Packaging, nonwovens, assembly, hot-melt PSA
Eastotac H-100L	100	<1	65	78	Packaging, nonwovens, assembly, hot-melt PSA
Eastotac H-100W	100	<1	69	81	Packaging, nonwovens, assembly, glue sticks, hot-melt PSA
Eastotac C-115R	115	1.5	60	78	Packaging, assembly, hot-melt PSA
Eastotac C-115L	115	<1	61	80	Packaging, assembly, hot-melt PSA
Eastotac C-115W	115	<1	68	85	Packaging, nonwovens, assembly, glue sticks, hot-melt PSA
Eastotac H-115R	115	1.5	76	82	Packaging, assembly, hot-melt PSA
Eastotac H-115L	115	<1	75	82	Packaging, assembly, hot-melt PSA
Eastotac H-115W	115	<1	68	80	Packaging, nonwovens, assembly, glue sticks, hot-melt PSA
Eastotac H-130R	130	1.5	70	81	Packaging, assembly
Eastotac H-130L	130	<1	77	83	Packaging, assembly
Eastotac H-130W	130	<1	76	83	Packaging, assembly
Eastotac H-142R	142	1.5	74	82	Packaging, assembly
Eastotac H-142W	142	<1	76	85	Packaging, assembly

Regalite

Hydrogenated hydrocarbon resins for hot-melt adhesives, hot-melt PSA, coatings and sealants.

Grade	Softening point, °C	Gardner color	DACP	MMAP	Applications
Regalite R1010	Liquid	<1 (neat)	—	82	Tackifier, plasticizer
Regalite C8010	Liquid	<1 (neat)	29	76	Tackifier, plasticizer
Regalite R1090	88	+1.0 (Hunterlab b)	39	74	Hot-melt adhesives, hot-melt PSA, coatings, sealants
Regalite S5100	97	<1	8	59	Hot-melt adhesives, hot-melt PSA, glue sticks
Regalite R9100	99	+4.6 (Hunterlab b)	36	71	Hot-melt adhesives, glue sticks
Regalite R1100	100	+0.8 (Hunterlab b)	45	78	Hot-melt adhesives, hot-melt PSA, coatings, sealants
Regalite S1100	100	<1	46	82	Hot-melt adhesives, hot-melt PSA, coatings, sealants
Regalite C6100	100	<1	31	60	Packaging, nonwovens, glue sticks, hot-melt PSA
Regalite C6100L	100	<1	23	55	Packaging, nonwovens, glue sticks, hot-melt PSA
Regalite R7100	102	<1	14	63	Hot-melt adhesives
Regalite S7125	122	<1	35	72	Hot-melt adhesives (APAO and high temperature)
Regalite R1125	123	+1.0 (Hunterlab b)	56	86	Hot-melt adhesives, coatings, sealants, plastic modification

Regalrez

Hydrogenated hydrocarbon resins with high heat and UV stability, for EVA and block copolymer hot-melt adhesives.

Grade	Softening point, °C	Color, YID	DACP	MMAP	Applications
Regalrez 1018	19	6	14	64	Tackifier, plasticizer
Regalrez 1094	95	2	59	84	For EVA and block copolymer hot-melt adhesives; high heat and UV stability
Regalrez 3102	102	3	-15	24	For EVA and block copolymer hot-melt adhesives; high heat and UV stability
Regalrez 6108	108	3	25	53	For EVA and block copolymer hot-melt adhesives; high heat and UV stability
Regalrez 1126	124	2	76	92	For EVA and block copolymer hot-melt adhesives; high heat and UV stability
Regalrez 1139	141	2	79	109	For EVA and block copolymer hot-melt adhesives; high heat and UV stability

Plastolyn

Hydrocarbon resins for plastic modification, contact adhesives and footwear, and as reinforcing resins in hot-melt adhesives.

Grade	Subcategory	Softening point, °C	Color, YID	Applications
Plastolyn R1140	Hydrogenated resin	140	<1 (Gardner)	Plastic modification

ExxonMobil

Escorez 5300

Water-white hydrogenated cycloaliphatic resins for nonwovens, packaging, bookbinding, tapes and labels.

Grade	Softening point, °C	Tg °C
Escorez 5380	86.2	36
Escorez 5300	105	51
Escorez 5320	124	69
Escorez 5340	139.5	86

Escorez 5400

Light-colored hydrogenated cycloaliphatic resins for nonwovens, packaging, bookbinding, tapes and labels.

Grade	Softening point, °C	Tg °C
Escorez 5400	103.4	49
Escorez 5415	118.3	63

Escorez 5600

Light-colored hydrogenated aromatic modified cycloaliphatic resins for nonwovens, packaging, bookbinding, tapes and labels.

Grade	Softening point, °C	Tg °C
Escorez 5690	90.5	39
Escorez 5600	102.5	52
Escorez 5615	117.8	68
Escorez 5637	129.7	77

Idemitsu

I-MARV

DCPD/aromatic copolymer hydrogenated hydrocarbon resin. Type S is partially hydrogenated; type P is hydrogenated.

Grade	Softening point, °F	Softening point, °C (converted)	Average molecular weight (VPO)	Density, g/cm³ @68°F	Hazen color	Bromine number, g/100g
I-MARV S-100	212	100	700	1.05	25	5
I-MARV P-100	212	100	660	1.03	10	2.5
I-MARV S-110	230	110	760	1.05	25	6
I-MARV P-125	257	125	820	1.03	20	2.5
I-MARV P-140	284	140	900	1.03	20	2

C5/C9 copolymer resins 28 grades

Typical uses: EVA hot melts, pressure-sensitive adhesives, packaging, bookbinding, woodworking, tapes, labels, sealants.

ExxonMobil

Escorez 2000

Aromatic modified aliphatic resins for packaging, woodworking, assembly, tapes and labels.

Grade	Softening point, °C	Tg °C
Escorez ECR807	89	45
Escorez 2203LC	91.6	44

Cray Valley

Wingtack

C5 tackifying resins with low odor and color, some modified with pure monomer C9, for adhesives.

Grade	Appearance	Softening point, °C	Gardner color (50% toluene)	Tg °C
Wingtack 86	Light yellow solid	87	1.2	42
Wingtack STS	Light yellow solid	94	3	44
Wingtack ET	Light yellow solid	95	2	47
Wingtack PLUS	Light yellow solid	96	1.6	50
Wingtack EXTRA	Light yellow solid	97	1.4	52
Wingtack 98	Light yellow solid	98	2.3	48

Norsolene A

Aromatic modified aliphatic resins for EVA hot-melt adhesives and coatings in packaging, bookbinding and woodworking.

Grade	Appearance	Softening point, °C	Gardner color (50% toluene)	Tg °C
Norsolene A-90	Yellow solid	97	5.6	46
Norsolene A-100	Yellow solid	104	5.6	53
Norsolene A-110	Yellow solid	108	5.6	64

Neville

NP, NEVPENE, NEVEX, NEVCHEM

Liquid and solid C9 resins and modified grades for marine and industrial maintenance coatings, PSA, EVA hot-melt adhesives and construction adhesives.

Grade	Type	Softening point, °C	Gardner color (50%)	Brookfield viscosity, cps	Applications
NEVPENE 9500	C9/C5	100	9	@160°C = 900	Adhesives & sealants: PSA (SIS/SBS), PSA (SBR), PSA (natural rubber), construction adhesives, mastics
NEVPENE 9510	C9/C5	100	4	@160°C = 570	Adhesives & sealants: PSA (SIS/SBS), PSA (SBR), EVA hot melt, contact adhesives, construction adhesives, mastics
NEVPENE 9510-N	C9/C5	100	8	@160°C = 855	—
NEVPENE 9545	Liquid C9/C5	N/A	8	@25°C = 45,000	Coatings: polyurethane

NEVTAC

C5 aliphatic resins for SIS/SBS and natural rubber PSA and EVA hot-melt adhesives.

Grade	Type	Softening point, °C	Gardner color (50%)	Brookfield viscosity, cps	Applications
Super NEVTAC 90	C5/C9	90	4	@150°C = 3,060	—
Super NEVTAC 99	C5/C9	95	4.5	@150°C = 3,200	Adhesives & sealants: PSA (SIS/SBS), PSA (SBR), PSA (natural rubber), EVA hot melt

Zeon

Quintone 100 series

Aliphatic resins based mainly on 1,3-pentadiene; the figures are design values.

Grade	Type	Softening point, °C (ring and ball)	Gardner color (converted)	Acid number, mgKOH/g	Applications
Quintone N180	Aliphatic/aromatic	80.0	2.5	—	Outstanding tack and low-temperature performance; especially suited to SIS-based hot-melt adhesives.
Quintone U185	Aliphatic/aromatic	86.0	2.5	—	Very good compatibility with SBR and EVA; for adhesive tapes and hot-melt adhesives.
Quintone DX390N	Aliphatic/aromatic	93.0	0.8	—	Low-color grade for hot-melt adhesives.
Quintone S195	Aliphatic/aromatic	94.0	1.5	—	Especially suited to SIS-based hot-melt adhesives.
Quintone DX395	Aliphatic/aromatic	94.0	0.8	—	Low-color grade for hot-melt adhesives.
Quintone D295	Aliphatic/aromatic	94.0	4.5	8.0	For EVA-based hot-melt adhesives.

Grade	Type	Softening point, °C (ring and ball)	Gardner color (converted)	Acid number, mgKOH/g	Applications
Quintone D100	Aliphatic/aromatic	99.0	2.5	—	Very good compatibility with SBR and EVA; for adhesive tapes and hot-melt adhesives.
Quintone G100B	Aliphatic/aromatic	100.0	4.5	—	Rubber modification, and EVA-based adhesives.
Quintone E200SN	Aliphatic/aromatic	102.0	3.0	1.6	For rubber-based adhesives, giving very good tack.
Quintone D200	Aliphatic/aromatic	102.0	4.5	17.0	For rubber-based adhesives, giving very good tack.
Quintone G115	Aliphatic/aromatic	115.0	4.5	—	For rubber-based pressure-sensitive and other adhesives; gives strong cohesion.

Other petroleum resins 10 grades

RÜTGERS

NOVARES Maleic Anhydride Modified

Maleic anhydride modified hydrocarbon resins.

Grade	Softening point, °C	Typical color (Gardner 50% toluene)	Product color (Gardner 50% toluene)
NOVARES TCS 5	liquid	9	max.12
NOVARES T 140 M	135-145	8	max.11
NOVARES TC 145 M	140-155	12	max.14

NOVARES TC, TCT

Copolymer resins with a broad range of uses.

Grade	Softening point, °C	Typical color (Gardner 50% toluene)	Product color (Gardner 50% toluene)
NOVARES TC 85	85-95	11	max.13
NOVARES TC 100	95-105	12	max.15
NOVARES TCT 100	97-110	13	max.18
NOVARES TC 115	110-120	12	max.13
NOVARES TC 125	120-130	12	max.13
NOVARES TC 145	140-155	13	max.15
NOVARES TC 160	155-165	14	max.15

Indene-coumarone resins 11 grades

RÜTGERS

NOVARES C, CA

Indene-coumarone resins, including phenol modified grades.

Grade	Softening point, °C	OH content, %	Typical color	Product color
NOVARES C 10	liquid	—	9*	max.12*
NOVARES C 30	20-30	—	8	max.11
NOVARES CA 80	78-85	app.3.5	7	max.9
NOVARES C 80	80-85	—	7	max.8
NOVARES C 90	88-95	—	7	max.10
NOVARES CA 100	95-105	2.2-2.7	7	max.10
NOVARES C 100	98-105	—	7	max.10
NOVARES C 120	115-125	—	7	max.9
NOVARES C 120 VL	116-124	—	8	max.8
NOVARES C 140	135-145	—	8	max.10
NOVARES C 160	155-164	—	7	max.9

Colors marked * were measured undiluted.

Modified liquid resins 24 grades

Typical uses: modifying epoxy, polyurethane, polysulfide, acrylic and waterborne systems; coal tar pitch replacement.

RÜTGERS

NOVARES Liquid

Modified liquid resins for epoxy, polyurethane, polysulfide and other reactive systems, improving hydrophobicity and flexibility, with some grades for waterborne systems.

Grade	OH content, %	Typical color	Product color
NOVARES L 100	—	1	max.4
NOVARES L 800	—	9	max.14
NOVARES LA 300	1.7-2.2	2	max.6
NOVARES LA 700	2.3-2.8	3	max.6
NOVARES LA 1200	2.4-2.7	5	max.14
NOVARES LA 100 P	1.5	1	max.2
NOVARES LA 300 P	1.7	1	max.2
NOVARES LA 700 P	1.9	1	max.2
NOVARES LA 2000 P	2.9	1	max.2
NOVARES LS 500	7.0-7.6	4	max.6
NOVARES W	—	1	max.4
NOVARES WA 2	1.9-2.5	—	max.6
NOVARES LC 15	1.4-1.6	2	max.4
NOVARES LC 20	1.8-2.2	2	max.4
NOVARES LC 25	2.3-2.7	3	max.4
NOVARES LC 40	3.8-4.2	3	max.4
NOVARES LC 65	6.2-6.6	3	max.5
NOVARES H 1100	—	9	max.17
NOVARES H 2500	0.3-1.0	8	max.15
NOVARES HA 30	0.9-1.3	4	max.14
NOVARES HA 1100	1.4-1.9	8	max.17
NOVARES HA 2100	1.6-2.0	8	max.17
NOVARES HA 1200 L	1.3-1.7	10	max.17
NOVARES HA 2500	2.1-2.6	10	max.15

DCPD resins 27 grades

Typical uses: industrial maintenance coatings, concrete cure coatings, aluminum and bronze paints, lithographic inks, construction adhesives, latex SBR mastics, rubber tackifying, epoxy modification, colored asphalt.

Neville

LX Liquid

Liquid DCPD resins for lithographic ink vehicles and interior wood coatings.

Grade	Type	Key properties	Applications
LX-2250	Liquid maleated DCPD	VOC <0.5%; Gardner color (neat) 8; acid number 18; Gardner viscosity BBS @25°C = 35; specific gravity @100°F 0.98	Inks: dispersion vehicles, flushing vehicles
LX-3843	Liquid DCPD	Flash point (TCC) 105°F; Gardner color (neat) 11; iodine number 130; Gardner viscosity BBS @25°C = 25; specific gravity @30°C 0.99	Coatings: interior wood, alkyd
LX-3120	Liquid DCPD	Softening point 20°C; Gardner color (50%) 12; flash point (COC) 400°F; Brookfield viscosity @80°C = 555 cps; Mn 364; Mw 736	—

LX Solid

Solid DCPD resins for industrial maintenance coatings, construction adhesives and lithographic inks.

Grade	Type	Softening point, °C	Gardner color (50%)	Applications
LX-685-105	DCPD	105	8	—
LX-1055	DCPD	105	13	—
LX-2600-105	DCPD	105	14	—
LX-3100	DCPD	108	14	Coatings: industrial and maintenance, aluminum/bronze paint, alkyd; Inks: dispersion vehicles, flushing vehicles, metallic inks
LX-1144LV	DCPD	110	6	Coatings: concrete curing
LX-238	DCPD	113	8	Coatings: industrial and maintenance, concrete curing
LX-1200	DCPD	114	11	Coatings: industrial and maintenance, concrete curing, aluminum/bronze paint; Adhesives & sealants: construction adhesives, mastics
LX-685-115	DCPD	115	10	Coatings: industrial and maintenance, aluminum/bronze paint
LX-2120	DCPD	120	14	Inks: dispersion vehicles, flushing vehicles, heatset gel
LX-1000-130	DCPD	130	12	Adhesives & sealants: construction adhesives, mastics
LX-1200-130	DCPD	130	11	Coatings: industrial and maintenance, aluminum/bronze paint; Adhesives & sealants: construction adhesives, mastics; Inks: coldset, dispersion vehicles, flushing vehicles, heatset gel, metallic inks
LX-1000-140	DCPD	138	13	Adhesives & sealants: construction adhesives, mastics
LX-2140	DCPD	140	13	Inks: coldset, dispersion vehicles, flushing vehicles
LX-2161	DCPD	140	14	Inks: coldset, dispersion vehicles, flushing vehicles, heatset gel
LX-2181	DCPD	140	13	Inks: coldset, dispersion vehicles, flushing vehicles, heatset gel, sheetfed gel
LX-2600	DCPD	140	14	Adhesives & sealants: construction adhesives, mastics; Inks: coldset, dispersion vehicles, flushing vehicles, heatset gel, sheetfed gel, metallic inks
LX-1035	DCPD	170	13	—
NEVROZ 1420	DCPD/rosin	150	12	Inks: heatset gel

Zeon

Quintone 1000 series

Alicyclic resins based mainly on dicyclopentadiene; the figures are design values.

Grade	Type	Softening point, °C (ring and ball)	Gardner color	Bromine number, g/100g	Saponification number, mgKOH/g	Applications
Quintone 1500	Ester-containing	100.0	4	—	175	Ester groups in the molecule give very broad solubility and compatibility. Used in nitrocellulose lacquers and in alkyd, epoxy and polyester coatings, and also in adhesives and civil engineering and building materials.
Quintone 1105	Unmodified	107.0	—	—	—	Heat-reactive grade, widely used as a base resin for oil-based alkyd coatings and printing inks; also a tackifier for rubber compounds.
Quintone 1920	Aromatic-containing	120.0	—	—	—	High softening point resin with very good compatibility with aromatic-containing polymers. For elastomer modification, colored asphalt modification, epoxy resin modification, and blends with unsaturated polyester resins and phenolic resins.
Quintone 1325	Unmodified	125.0	3	92	—	Heat-reactive grade, widely used as a base resin for oil-based alkyd coatings and printing inks; also a tackifier for rubber compounds.
Quintone 1340	Unmodified	140.0	—	—	—	Heat-reactive grade, widely used as a base resin for oil-based alkyd coatings and printing inks; also a tackifier for rubber compounds.
Quintone 2940	Aromatic-containing	141.0	—	—	—	High softening point resin with very good compatibility with aromatic-containing polymers. For elastomer modification, colored asphalt modification, epoxy resin modification, and blends with unsaturated polyester resins and phenolic resins.

Hydrogenated C5 resins 21 grades

Typical uses: hot-melt and pressure-sensitive adhesives, construction, automotive assembly, tires, packaging, bookbinding, hygiene products, footwear, hot-melt road marking, colored asphalt.

Lanzhou Petrochemical

LH Series

Hydrogenated C5 resins for hot-melt adhesives, PSA, packaging, bookbinding, hygiene products and hot-melt road marking.

Grade	Physical state	Softening point, °C	Yellowness index (50% toluene)	Gardner color (50% toluene)	Bromine number, Br2 g/100g ⩽	Acid number, mgKOH/g ⩽	Fire point, °C ⩾
LH90-0	Granular	85～95	<3.50	—	1	0.5	220
LH90-1	Granular	85～95	3.50～9.49	—	2	0.5	220
LH90-2	Granular	85～95	—	1.1～2.0	3	0.5	220
LH90-3	Granular	85～95	—	2.1～3.0	5	0.5	220
LH90-4	Granular	85～95	—	3.1～4.0	—	0.5	220
LH90-5	Granular	85～95	—	4.1～5.0	—	0.5	220
LH90-6	Granular	85～95	—	5.1～6.0	—	0.5	220
LH100-0	Granular	96～105	<3.50	—	1	0.5	220
LH100-1	Granular	96～105	3.50～9.49	—	2	0.5	220
LH100-2	Granular	96～105	—	1.1～2.0	3	0.5	220
LH100-3	Granular	96～105	—	2.1～3.0	5	0.5	220
LH100-4	Granular	96～105	—	3.1～4.0	—	0.5	220
LH100-5	Granular	96～105	—	4.1～5.0	—	0.5	220
LH100-6	Granular	96～105	—	5.1～6.0	—	0.5	220
LH110-0	Granular	106～115	<3.50	—	1	0.5	220
LH110-1	Granular	106～115	3.50～9.49	—	2	0.5	220
LH110-2	Granular	106～115	—	1.1～2.0	3	0.5	220
LH110-3	Granular	106～115	—	2.1～3.0	5	0.5	220
LH110-4	Granular	106～115	—	3.1～4.0	—	0.5	220
LH110-5	Granular	106～115	—	4.1～5.0	—	0.5	220
LH110-6	Granular	106～115	—	5.1～6.0	—	0.5	220

Pure monomer resins 49 grades

Typical uses: hot-melt adhesives, bookbinding, packaging, coatings, sealants, plastic modification, reinforcing resin for block copolymer adhesives.

Kraton

SYLVARES SA

Light-colored AMS resins with good oxidative stability that modify SBC styrene endblocks, for packaging, bookbinding, nonwoven and assembly adhesives.

Grade	Softening point, °C	Hazen color (1:1 toluene)	Tg °C
SYLVARES SA 85	85	17	39
SYLVARES SA 100	101	15	52
SYLVARES SA 115	117	12	67
SYLVARES SA 120	120	12	70
SYLVARES SA 140	137	12	87

SYLVARES AMS Phenolic

Water-white, phenol modified AMS resins with good compatibility with EVA, PUR and acrylics, for bookbinding and packaging adhesives.

Grade	Softening point, °C	Hazen color (1:1 toluene)	Tg °C
SYLVARES 520	75	20	38
SYLVARES 540	76	19	38
SYLVARES 525	95	17	51

SYLVALITE, SYLVATAC, SYLVARES

Rosin ester, polyterpene, terpene phenolic and pure monomer resin grades for adhesive formulations.

Grade	SP °C	Tg °C	Gardner color
SYLVARES 600	95	52	<1

Synthomer

Endex, Kristalex, Piccolastic, Piccotex

Pure monomer resins for hot-melt adhesives, bookbinding, packaging, plastic modification and coatings; Endex reinforces block copolymer adhesives.

Grade	Softening point, °C	Color, YID	DACP (EMDA for Kristalex F)	MMAP	Applications
Endex 155	153	5	-23	16	Reinforcing resin for block copolymer adhesives
Endex 160	159	8	-15	16	Reinforcing resin for block copolymer adhesives
Kristalex 3070	70	7	<-50	0	Hot-melt adhesives, bookbinding, packaging
Kristalex 3085	85	4	<-50	1	Hot-melt adhesives, bookbinding, packaging
Kristalex F85	86	<1 (Gardner)	45 (EMDA)	1	Hot-melt adhesives, bookbinding, packaging
Kristalex F100	99	<1 (Gardner)	57 (EMDA)	2	Hot-melt adhesives, bookbinding, packaging
Kristalex 3100	100	5	<-50	5	Hot-melt adhesives, bookbinding, packaging
Kristalex 3100LV	100	5	-40	6	Hot-melt adhesives, bookbinding, packaging
Kristalex 3115	115	10	<-50	3	Hot-melt adhesives, bookbinding, packaging
Kristalex F115	117	<1 (Gardner)	80 (EMDA)	2	Hot-melt adhesives, bookbinding, packaging
Kristalex 1120	119	7	-35	5	Hot-melt adhesives, bookbinding, packaging
Kristalex 3115LV	120	10	-40	5	Hot-melt adhesives, bookbinding, packaging
Kristalex 5140	139	4	-48	9	Plastic modification, coatings, sealants
Kristalex 5140LV	140	7	-40	10	Plastic modification, coatings, sealants
Piccolastic A5	5	2 (Gardner)	<-50	-6	Adhesives, coatings, plastic modification
Piccolastic A75	74	1 (Gardner)	<-50	6	Adhesives, coatings, plastic modification
Piccolastic D125	126	2 (Gardner)	-32	13	Adhesives, plastic modification
Piccotex 75	75	6	<-50	1	Hot-melt adhesives, food packaging, coatings
Piccotex LC	91	8	<-50	3	Hot-melt adhesives, food packaging, coatings
Piccotex 100	98	6	<-50	7	Hot-melt adhesives, food packaging, coatings
Piccotex 120	118	5	-35	11	Hot-melt adhesives, food packaging, coatings

RÜTGERS

NOVARES TM

Pure monomer resins with good UV and heat stability.

Grade	Softening point, °C	Typical color (Gardner 50% toluene)	Product color (Gardner 50% toluene)
NOVARES TM 20 AS	liquid	1*	max.4*
NOVARES TM 70 S	70-75	1	max.2
NOVARES TM 85 AS	82-88	<1	max.1
NOVARES TM 90 S	85-100	1	max.2

Colors marked * were measured undiluted.

Cray Valley

Norsolene W

Water-white resins made from pure styrene monomers, for mastics and EVA hot-melt adhesives.

Grade	Appearance	Softening point, °C	Gardner color (50% toluene)	Tg °C
Norsolene W-85	Colorless solid	85	<1	35
Norsolene W-90	Colorless solid	90	<1	40
Norsolene W-100	Colorless solid	100	<1	50
Norsolene W-110	Colorless solid	110	<1	60

Mitsui Chemicals

FTR

Grouped by monomers into the Zero, 2000, 6000, 7000, 8000 and FMR series; uses follow Mitsui Chemicals' recommendations by series.

Grade	Series	Monomers	Appearance	Softening point, °C	Gardner color	Hazen color	Acid number, mgKOH/g	Applications
FTR 6100	6000 series	Styrenic monomer/aliphatic monomer (copolymer)	White flakes	95	<1	125	<0.1	Hot-melt adhesives, acrylic adhesives, PSA tapes, protective films and papers, film processing, sealants
FTR 0100	Zero series	α-Methylstyrene (homopolymer)	White flakes	100	<1	30	<0.1	Hot-melt adhesives
FTR 7100	7000 series	Styrenic monomer/α-methylstyrene/aliphatic monomer (copolymer)	White flakes	100	<1	120	<0.1	—
FTR 8100	8000 series	Styrenic monomer (homopolymer)	White flakes	100	<1	100	<0.1	Acrylic adhesives, thermal transfer ribbons
FTR 6110	6000 series	Styrenic monomer/aliphatic monomer (copolymer)	White flakes	110	<1	125	<0.1	Hot-melt adhesives, acrylic adhesives, PSA tapes, protective films and papers, film processing, sealants
FTR 0120	Zero series	α-Methylstyrene (homopolymer)	White flakes	120	<1	100	<0.1	Hot-melt adhesives
FTR 2120	2000 series	α-Methylstyrene/styrene (copolymer)	White flakes	120	<1	125	<0.1	Hot-melt adhesives, copier and printer toners
FTR 8120	8000 series	Styrenic monomer (homopolymer)	White flakes	120	<1	100	<0.1	Acrylic adhesives, thermal transfer ribbons
FTR 6125	6000 series	Styrenic monomer/aliphatic monomer (copolymer)	White flakes	125	<1	125	<0.1	Hot-melt adhesives, acrylic adhesives, PSA tapes, protective films and papers, film processing, sealants
FTR 2140	2000 series	α-Methylstyrene/styrene (copolymer)	White flakes	140	<1	100	<0.1	Hot-melt adhesives, copier and printer toners
FMR 0150	FMR series	Styrenic monomer/aromatic monomer (copolymer)	White flakes	145	2	250	<0.1	Rubber modifier for specialty rubbers

Rosin & derivatives 98 grades

Rosin esters 62 grades

Typical uses: hot melts for packaging, bookbinding and woodworking, pressure-sensitive adhesives, construction adhesives, hot-melt road marking, coatings, inks, chewing gum, pigments and masterbatches, depilatory wax.

Kraton

SYLVATAC, SYLVALITE

Rosin esters compatible with EVA, acrylics, SBR, SIS and SBS, for packaging, pressure-sensitive and woodworking adhesives.

Grade	Softening point, °C	Acid number, mgKOH/g	Gardner color (neat)	Gardner color (1:1 toluene)	Tg °C
SYLVALITE 2010	liquid	9	3	—	-30
SYLVALITE 2038	35	13	3	—	-6
SYLVALITE RE 85GB	85	11	3	—	35
SYLVALITE RE 88F	88	4	—	1	41
SYLVALITE RE 100L	98	10	4	—	53
SYLVALITE 2100	99	4	—	1	48
SYLVALITE 2200	99	9	1	—	52
SYLVALITE RE 100F	100	4	—	2	52
SYLVALITE 9100	104	7	—	88 Hazen	55
SYLVALITE RE 105L	105	11	3	—	51
SYLVALITE RE 110L	108	8	4	—	57
SYLVALITE 2115	115	4	—	2	65
SYLVALITE 2119	120	12	4	—	68
SYLVATAC RE 12	liquid	14	—	1	-24
SYLVATAC RE 25	30	21	2	—	-13
SYLVATAC RE 85 (US)	81	5	3	—	30
SYLVATAC RE 85 (EU)	82	4	—	2	33
SYLVATAC 2098	98	8	—	4	46
SYLVATAC RE 103S	103	7	—	4	52

SYLVALITE, SYLVATAC, SYLVARES

Rosin ester, polyterpene, terpene phenolic and pure monomer resin grades for adhesive formulations.

Grade	SP °C	Tg °C	Gardner color	Acid number
SYLVALITE RE 88	88	40	<2	5
SYLVALITE RE 100	100	50	2	5
SYLVALITE RE 104	104	53	2	6
SYLVALITE RE 105XL	105	55	<1	6
SYLVALITE RE 115	115	65	2	6
SYLVALITE RE 118	115	65	2	8
SYLVATAC RE 5	liquid	-25	4	12
SYLVATAC RE 95	96	45	4	15
SYLVATAC RE 103	102	53	4	10
SYLVAMELT RE 401	—	-20	4	67

Synthomer

Rosin Resins - Asia

Rosin esters and polymerized rosins for hot-melt adhesives, PSA, coatings, inks and soldering flux.

Grade	Type	Softening point, °C	USRG color	Gardner color (50% toluene)	Acid number	Applications
Eastman Ester Gum 8D-C	Deodorized rosin ester	88	N_o max	—	8 max	Chewing gum, depilatory wax, compound blends
Eastman Ester Gum 10D	Deodorized polymerized rosin ester	108	WW_o	—	5	Chewing gum, solvent-based PSA, hot-melt adhesives
Permalyn 5095-C	Stabilized rosin ester	88	—	2-4	10 max	Hot-melt adhesives (packaging and bookbinding), hot-melt and solvent-based PSA, flooring adhesives, depilatory wax, asphalt modification, concrete curing
Permalyn 5110-C	Stabilized rosin ester	100	—	4-6	16 max	Hot-melt adhesives (packaging and bookbinding), solvent-based PSA, hot-melt road marking, wax modification, rubber compounds
Permalyn 7110-C	Stabilized rosin ester	100	—	3-4	16 max	Hot-melt adhesives (packaging and bookbinding), solvent-based PSA, hot-melt road marking, wax modification, rubber compounds
Poly-Pale Ester 10	Polymerized rosin ester	109	WG_o	—	8 max	Hot-melt adhesives (woodworking and packaging), coatings, inks, pressure-sensitive adhesives
Pentalyn C	Polymerized rosin ester	126	—	11	10	Hot-melt adhesives (woodworking and packaging), coatings, inks, pressure-sensitive adhesives

Rosin Resins - Europe

Hydrogenated rosins and rosin esters for hot-melt and solvent-based adhesives, PSA and soldering flux.

Grade	Type	Softening point, °C (drop method)	Gardner color	Acid number	Applications
Permalyn 5095	Stabilized rosin ester	92	3	8	Hot-melt adhesives
Permalyn 5110	Stabilized rosin ester	106	6	14	Hot-melt adhesives
Permalyn 6110	Stabilized rosin ester	110	<1	13	Hot-melt adhesives
Eastman Ester Gum 8D	Deodorized rosin ester	93	USRG WW	7	Chewing gum

Rosin Resins - Mexico

Deodorized and polymerized rosin esters for hot-melt and solvent-based adhesives.

Grade	Type	Softening point, °C	Gardner color (50% toluene)	Acid number	Applications
Eastman Ester Gum 8D-M	Deodorized rosin ester	83-87	11	3-9	Chewing gum, solvent-based PSA, hot-melt adhesives
Permalyn 6100-M	Polymerized rosin ester	113	<1	13	Hot-melt and solvent-based adhesives

DRT

Rosin esters

Glycerol and pentaerythritol esters of tall oil and gum rosin and of hydrogenated, polymerized and maleic rosin, for adhesives, hot-melt road marking, paints, inks and pigments.

Grade	Type	Acid number	Softening point, °C (ring and ball)	Gardner color (50% toluene)	Applications
DERTOLINE G 5	Glycerol ester of tall oil rosin	4	85	5	Adhesives
DERTOLINE CG	Deodorized glycerol ester of tall oil rosin	6	86	5	Adhesives, chewing gum base
DERTOLINE G2L	Light colored glycerol ester of tall oil rosin	12	87	1.5	Adhesives, pigments and masterbatches
DERTOLINE PLS	Stabilized pentaerythritol ester of tall oil rosin	8	96	2.5	Adhesives
DERTOLINE P2L	Light colored pentaerythritol ester of tall oil rosin	10	98	1.5	Adhesives, pigments and masterbatches, hot-melt road marking

Grade	Type	Acid number	Softening point, °C (ring and ball)	Gardner color (50% toluene)	Applications
DERTOLINE P 105	Pentaerythritol ester of tall oil rosin	12	105	2.5	Adhesives, hot-melt road marking
DERTOLINE MG 105	Glycerol ester of maleic rosin	40	105	6	Hot-melt road marking
DERTOLINE P 110	Modified pentaerythritol ester of tall oil rosin	10	110	4	Adhesives, pigments and masterbatches, hot-melt road marking
DERTOLINE MG	Glycerol ester of maleic rosin	8	117	6	Paints and varnishes, hot-melt road marking
DERTOLINE MG 130	Glycerol ester of maleic rosin	10	130	6.5	Paints and varnishes, hot-melt road marking
DERTOLINE MP	Pentaerythritol ester of maleic rosin	4	139	6	Adhesives, printing inks, paints and varnishes
DERTOLINE MP 170	Pentaerythritol ester of maleic rosin	60	175	6	Printing inks, pigments and masterbatches
GRANOLITE SG	Glycerol ester of gum rosin	15	81	6	Adhesives, depilatory waxes
GRANOLITE P 118	Pentaerythritol ester of gum rosin	18	118	5	Adhesives, hot-melt road marking
DERTOPOLINE CG	Deodorized glycerol ester of polymerized rosin	7	117	6.5	Adhesives, chewing gum base
DERTOPOLINE P 125	Pentaerythritol ester of polymerized rosin	12	128	6	Adhesives
WESTREZ 5101 P	Pentaerythritol ester of tall oil rosin	10	99	3.5	Adhesives, hot-melt road marking

Liquid rosin esters

Diethylene glycol, triethylene glycol and methyl rosin esters; viscosity is measured at 75°C.

Grade	Type	Acid number	Gardner color (50% toluene)	Applications
DERTOLINE DEG 2	Diethylene glycol ester of tall oil rosin	20	4	Adhesives
GRANOLITE TEG	Triethylene glycol ester of rosin	10	6	Adhesives
GRANOLITE M	Methyl ester of rosin	8	4	Adhesives, flavors and fragrances

Rosin 10 grades

Kraton

UNI-TAC

Strongly polar solid rosin with a high acid number, suited to hard-to-bond substrates.

Grade	Softening point, °C	Acid number, mgKOH/g	Gardner color (neat)	Tg °C
UNI-TAC 70	80	155	11	33

Synthomer

Rosin Resins - Asia

Rosin esters and polymerized rosins for hot-melt adhesives, PSA, coatings, inks and soldering flux.

Grade	Type	Softening point, °C	USRG color	Gardner color (50% toluene)	Acid number	Applications
Poly-Pale	Partially polymerized rosin	99-106	WG_o	8	140 min	Adhesives, inks, soldering flux
Dymerex	Polymerized rosin	138-151	K_o	9	140 min	Adhesives, inks, soldering flux

DRT

Rosins and modified rosins

Hydrogenated, disproportionated, polymerized and modified rosins and dehydroabietic acid, for adhesives, paints, pigments, soldering fluxes, synthetic rubbers and inks.

Grade	Type	Acid number	Softening point, °C (ring and ball)	Gardner color (50% toluene)	Applications
GRESINOX 578 M	Disproportionated rosin	165	80	6	Synthetic rubbers
RESIGRAL 52	Dehydroabietic acid	155	82	5	Adhesives, paints and varnishes, pigments and masterbatches
POLYGRAL 95	Polymerized rosin	155	95	6	Adhesives, soldering fluxes
POLYGRAL	Polymerized rosin	153	109	7	Adhesives, paints and varnishes, pigments and masterbatches, soldering fluxes, depilatory waxes
POLYGRAL 115	Polymerized rosin	153	117	7	Adhesives, paints and varnishes, soldering fluxes
POLYGRAL 140	Dimeric rosin acids	154	138	9	Adhesives, concrete additives, paints and varnishes, soldering fluxes
COLOPHANE 25 AF	Fumarated rosin	300	150	9	Printing inks

Hydrogenated rosin esters 13 grades

Typical uses: hot-melt and solvent adhesives, pressure-sensitive adhesives, chewing gum, depilatory wax, rubber compounds, cosmetics, perfume.

Synthomer

Rosin Resins - Asia

Rosin esters and polymerized rosins for hot-melt adhesives, PSA, coatings, inks and soldering flux.

Grade	Type	Softening point, °C	USRG color	Acid number	Applications
Staybelite Ester 5-C	Partially hydrogenated rosin ester	84	N_o max	8 max	Chewing gum, depilatory wax, hot-melt and solvent-based PSA, wax modification, rubber compounds

Rosin Resins - Europe

Hydrogenated rosins and rosin esters for hot-melt and solvent-based adhesives, PSA and soldering flux.

Grade	Type	Softening point, °C (drop method)	Gardner color	Acid number	Applications
Staybelite Ester 5-E	Partially hydrogenated rosin ester	85	USRG X	8	Chewing gum
Staybelite Ester 10-E	Partially hydrogenated rosin ester	86	6	8	Adhesives, cosmetics
Foral 85-E	Highly hydrogenated rosin ester	86	2	9	Hot-melt and solvent-based adhesives
Foral 105-E	Highly hydrogenated rosin ester	106	5+	14	Hot-melt and solvent-based adhesives
Foralyn 90	Hydrogenated rosin ester	89	1	9	Hot-melt and solvent-based adhesives
Foralyn 110	Hydrogenated rosin ester	109	2	14	Hot-melt and solvent-based adhesives
Pentalyn H-E	Partially hydrogenated rosin ester	108	8	14	Pressure-sensitive adhesives

Liquid & Specialty Rosin Resins - Europe

Liquid and specialty rosin derivatives used mainly as tackifiers and plasticizers.

Grade	Type	Softening point, °C	Gardner color	Acid number	Melt viscosity, mPa.s@25°C	Applications
Foralyn 5020-F	Partially hydrogenated rosin ester	Liquid	3 (neat)	6	5400	Cosmetics, fragrances, tackifier, plasticizer

DRT

Rosin esters

Glycerol and pentaerythritol esters of tall oil and gum rosin and of hydrogenated, polymerized and maleic rosin, for adhesives, hot-melt road marking, paints, inks and pigments.

Grade	Type	Acid number	Softening point, °C (ring and ball)	Gardner color (50% toluene)	Applications
HYDROGRAL G5	Glycerol ester of hydrogenated rosin	7	78	7	Chewing gum base
HYDROGRAL G	Glycerol ester of hydrogenated rosin	9	85	7	Adhesives, depilatory waxes
HYDROGRAL P	Pentaerythritol ester of hydrogenated rosin	15	97	11	Adhesives

Liquid rosin esters

Diethylene glycol, triethylene glycol and methyl rosin esters; viscosity is measured at 75°C.

Grade	Type	Acid number	Gardner color (50% toluene)	Applications
HYDROGRAL M	Methyl ester of hydrogenated rosin	8	4	Adhesives, flavors and fragrances

Hydrogenated rosin 4 grades

Typical uses: hot-melt adhesives, soldering flux, colored coatings, pigments and masterbatches, depilatory wax.

Synthomer

Rosin Resins - Europe

Hydrogenated rosins and rosin esters for hot-melt and solvent-based adhesives, PSA and soldering flux.

Grade	Type	Softening point, °C (drop method)	Gardner color	Acid number	Applications
Staybelite Resin-E	Partially hydrogenated rosin	79	5	162	Hot-melt adhesives, soldering flux, pigmented coatings
Foralyn-E	Hydrogenated rosin	81	2	168	Hot-melt adhesives, soldering flux, pigmented coatings
Foral AX-E	Highly hydrogenated rosin	81	<1	166	Hot-melt adhesives, soldering flux, pigmented coatings

DRT

Rosins and modified rosins

Hydrogenated, disproportionated, polymerized and modified rosins and dehydroabietic acid, for adhesives, paints, pigments, soldering fluxes, synthetic rubbers and inks.

Grade	Type	Acid number	Softening point, °C (ring and ball)	Gardner color (50% toluene)	Applications
HYDROGRAL	Hydrogenated rosin	163	79	5	Adhesives, pigments and masterbatches, soldering fluxes, depilatory waxes

Rosin derivatives 9 grades

Typical uses: tackifiers, plasticizers, acrylic tapes and labels for freezing conditions, paints, adhesives, synthetic rubbers, paper sizing.

Synthomer

Liquid & Specialty Rosin Resins - Europe

Liquid and specialty rosin derivatives used mainly as tackifiers and plasticizers.

Grade	Type	Softening point, °C	Gardner color	Acid number	Melt viscosity, mPa.s@25°C	Applications
Abitol-E	Hydrogenated abietyl alcohol	Liquid	Hunter 2 (neat)	0.1	6,500 @50°C	Tackifier, plasticizer
Cellolyn 21-E	Hydrogenated abietyl alcohol phthalate	63	1	6	—	Tackifier for acrylic tapes and labels used in freezer conditions

DRT

Rosin soaps

Sodium and potassium soaps of rosin and tall oil, for synthetic rubbers, paper sizing and concrete and bitumen additives.

Grade	Type	Solid content, %	Acid number	Applications
DERCINATE 50 TO	Na soap of tall oil	50	3	Bitumen additives, concrete additives
DERCINATE 70 D	Na soap of disproportionated rosin	70	11	Synthetic rubbers
DERCINATE PS 50	Na soap of modified rosin	50	0.8	Paper sizing
SAVON GRESINOX 578 M	Na or K soap of disproportionated rosin	70 / 80	12	Synthetic rubbers

Resinates

Calcium and zinc resinates for paints and adhesives; viscosity is for a 50% toluene solution at 20°C.

Grade	Type	Acid number	Softening point, °C	Applications
DERTOCAL 140	Calcium resinate	63	140	Paints and varnishes, adhesives
ZINCOGRAL Z	Zinc resinate	5	160	Adhesives
ZINCOGRAL ZN9	Resinate with high zinc content	5	160	Adhesives

Terpene resins 44 grades

Terpene resins 22 grades

Typical uses: tackifier for adhesives based on polyolefins and SIS; tires.

Kraton

SYLVARES Polyterpene

Polyterpene resins compatible with polyolefins and the SIS midblock; high softening point grades combine heat resistance with tack and peel.

Grade	Softening point, °C	Gardner color (neat)	Tg °C
SYLVARES 3025	26	5	-20
SYLVARES 3117	114	3	64
SYLVARES TR M1115	116	2	60
SYLVARES 3115	116	4	61
SYLVARES 3127	124	3	76
SYLVARES 3125	126	2	76

SYLVALITE, SYLVATAC, SYLVARES

Rosin ester, polyterpene, terpene phenolic and pure monomer resin grades for adhesive formulations.

Grade	SP °C	Tg °C	Gardner color
ZONATAC NG 98	98	57	2
SYLVARES XR 5168	25	-20	4
SYLVARES TR 90	90	40	4
SYLVARES TR 105	105	55	4
SYLVARES TR B115	115	70	4
SYLVARES TR 7115	115	70	3+

DRT

DERCOLYTE

Polyterpene and modified terpene resins (alpha pinene, beta pinene, limonene, styrenated) for adhesives and tires; some grades for chewing gum base. The LTG value of 20 is a dropping point, not a softening point.

Grade	Type	Softening point, °C (ring and ball)	Gardner color (50% toluene)	Applications
DERCOLYTE LTG	Polyterpene resin	20 (dropping point)	3	Adhesives, tires
DERCOLYTE TS 95	Terpene styrenated resin	95	<1	Adhesives, tires
DERCOLYTE M 105	Alpha, beta pinene based resin	105	2	Adhesives, chewing gum base
DERCOLYTE TS 105	Terpene styrenated resin	105	<1	Adhesives, tires
DERCOLYTE A 115	Alpha pinene based resin	115	3	Adhesives, tires
DERCOLYTE S 115	Beta pinene based resin	115	2	Adhesives, tires
DERCOLYTE M 115	Alpha, beta pinene based resin	115	2	Adhesives, chewing gum base
DERCOLYTE A 125	Alpha pinene based resin	125	3	Adhesives, tires
DERCOLYTE S 125	Beta pinene based resin	125	3	Adhesives, tires
DERCOLYTE L 120	Limonene based resin	125	1	Adhesives, tires

Terpene phenolic resins 22 grades

Typical uses: adhesives based on EVA and other polar polymers; SIS, SBS and acrylic pressure-sensitive adhesives; tires.

Kraton

SYLVARES Terpene Phenolic

Terpene phenolic resins with a wide polarity range, for EVA and other polar polymers and for SIS, SBS and acrylic PSA on difficult substrates.

Grade	Softening point, °C	Gardner color (neat)	Tg °C
SYLVARES TP 96	95	7	50
SYLVARES 1095	96	4	40
SYLVARES 1105	105	4	50
SYLVARES TP 300	112	4	68
SYLVARES 1115	115	4	60
SYLVARES TP 2040	118	4	71
SYLVARES TP 2019	124	4	74
SYLVARES TP 2040HM	126	4	78
SYLVARES TP 7042	148	3	97
SYLVARES 1150	150	4	93
SYLVARES 1160	160	4	106

SYLVALITE, SYLVATAC, SYLVARES

Rosin ester, polyterpene, terpene phenolic and pure monomer resin grades for adhesive formulations.

Grade	SP °C	Tg °C	Gardner color
SYLVARES TP 95	95	50	4
SYLVARES TP 105	105	55	4
SYLVARES TP 115	115	55	4
SYLVARES TP 2040HME	125	80	4+
SYLVARES TP 7042E	145	100	5

DRT

DERTOPHENE

Terpene phenolic resins for adhesives and tires.

Grade	Type	Softening point, °C (ring and ball)	Gardner color (50% toluene)	Hydroxyl number	Applications
DERTOPHENE T	Terpene phenolic resin	95	4	20-50	Adhesives, tires
DERTOPHENE T 105	Terpene phenolic resin	105	4	20-60	Adhesives, tires
DERTOPHENE T 110	Terpene phenolic resin	111	4	40-60	Adhesives, tires
DERTOPHENE H 150	Terpene phenolic resin	118	5	135-150	Adhesives, tires
DERTOPHENE T 115	Terpene phenolic resin	120	5	40-60	Adhesives, tires
DERTOPHENE 1510	Terpene phenolic resin	150	6	100	Adhesives, tires

Polyolefins 57 grades

APAO 12 grades

Typical uses: hot-melt adhesives.

Synthomer

Eastoflex

Amorphous polyolefin (APAO) grades.

Grade	Subcategory	Viscosity @190°C, mPa.s	Softening point, °C (ring and ball)	Tg °C	Needle penetration, dmm	Strength, MPa (psi)
P1010PL	Polypropylene homopolymer	1000	155	-10	18	1.38 (200)
P1023PL	Polypropylene homopolymer	2300	155	-10	18	1.38 (200)
M1010PL	Polypropylene/propylene-ethylene copolymer blend	1000	153	-19	30	0.90 (130)
M1020PL	Polypropylene/propylene-ethylene copolymer blend	2000	153	-21	35	0.34 (50)
M1018PL	Polypropylene/propylene-ethylene copolymer blend	1800	155	-15	25	0.83 (120)
M1030PL	Polypropylene/propylene-ethylene copolymer blend	3000	155	-12	20	1.03 (150)
M1058PL	Polypropylene/propylene-ethylene copolymer blend	5800	155	-15	20	1.24 (180)
M2058PL	Polypropylene/propylene-ethylene copolymer blend	5800	155	-16	25	—
E1016PL	Propylene-ethylene copolymer	1600	140	-25	50	—
E1045PL	Propylene-ethylene copolymer	4500	140	-22	40	0.34 (50)
E1060PL	Propylene-ethylene copolymer	5700	140	-20	35	0.34 (50)
E1200PL	Propylene-ethylene copolymer	17000	143	-22	25	1.03

Functionalized polyolefins 4 grades

Synthomer

Eastman G

Functionalized polyolefins in Ma-PE and Ma-PP grades.

Grade	Polymer type	DSC Tm °C	Needle penetration, dmm	Acid number, mgKOH/g	Viscosity, cPs@190°C	Melt index at 190°C
Eastman G 2608	Ma-PE	122	<1	8	—	8
Eastman G 3003	Ma-PP	158	<1	9	60000	—
Eastman G 3015	Ma-PP	156	<1	15	25000	—
Eastman G 3216	Ma-PP	142	<1	16	300	—

EVA copolymers 28 grades

Typical uses: packaging, bookbinding, woodworking, assembly, carpet backing, wax blending, road marking.

ExxonMobil

Escorene Ultra EVA

EVA copolymers for packaging, bookbinding, woodworking, assembly and road marking.

Grade	Comonomer content, wt%	Melt index, g/10min	Melting point, °C
AD 0428EM1	27.5	400	71
AD 0433EH2	33	400	59
UL 00218CC3	18	1.7	87
UL 00328	27	3	73
UL 00728	27.5	7	73
UL 02133EN2	33	21	61
UL 02528	27.5	25	71
UL 04028CC	27.5	41	71
UL 04533EH2	33	45	62
UL 05540EH2	39	60	48
UL 15019CC	19	150	83
UL 15028CC	27.5	150	69
UL 40028	28	400	69
UL 53019	19	530	80
AD 2528	27.6	3200 (Brookfield viscosity at 190°C)	74
UL 7510	18.7	500	78
UL 7511	18.7	500 (estimated)	78
UL 7521	18.5	150 (estimated)	80
UL 7710	26.7	420	62
UL 7711	26.7	420 (estimated)	62
UL 7720	27.6	150 (estimated)	63
UL 7741	26.7	43	69
UL 7765	26.2	2.3	74
UL 8705	27.6	9300 (Brookfield viscosity at 190°C)	71
UL 7520	18.5	140	83
UL 7740	27.6	43	66
UL 7760	26.7	5.7	73
UL 7840E	31.4	43	58

EnBA copolymers 2 grades

Typical uses: adhesive formulas.

ExxonMobil

ExxonMobil EnBA

EnBA copolymer grades.

Grade	Comonomer content, wt%	Melt index, g/10min	Melting point, °C
EN 33331	32.5	330 (estimated)	62
EN 33901	32.5	8340 (Brookfield viscosity at 190°C)	60

EMA resins 4 grades

Typical uses: adhesive formulas.

ExxonMobil

Optema EMA

EMA resin grades.

Grade	Comonomer content, wt%	Melt index, g/10min	Melting point, °C
TC 110	21.5	2	80
TC 114	18	3.2	85
TC 120	21.5	6	77
TC 220	24	5	72

Vistamaxx performance polymers 7 grades

Typical uses: nonwovens, packaging, bookbinding, woodworking, assembly, carpet backing, sealants, labels, road marking.

ExxonMobil

Vistamaxx

Performance polymers for nonwovens, packaging, carpet backing, sealants and road marking.

Grade	Density, g/cm³	Viscosity @190°C, cP	MFR 230°C/2.16kg	Tg °C	Tm °C
Vistamaxx 8880	0.879	1200	—	-22	97
Vistamaxx 8780	0.864	3980	—	-32	96
Vistamaxx 8380	0.864	7570	—	-31	100
Vistamaxx 6502	0.865	—	48	—	—
Vistamaxx 6202	0.863	—	20	—	—
Vistamaxx 3980FL	0.878	—	8	—	—
Vistamaxx 3000	0.873	—	8	—	—

Polyisobutylene 2 grades

Typical uses: lubricants, synthetic oils, lip gloss; stretch film formulas for PIB 32.

Braskem

PIB

Polyisobutylene for lubricants, synthetic oils and cosmetic lip gloss; PIB 32 also suits stretch film formulations.

Grade	Color, Pt-Co	Density (20/4°C)
PIB 24	50	0.89
PIB 32	50	0.9

Other specialties 35 grades

Polyisoprene (IR) 5 grades

Typical uses: rubber goods that need high purity or a regular structure.

Kraton

Kraton IR

Specialty polyisoprene rubber processed like natural rubber, including vulcanization, with light color and high flow.

Grade	Polymer structure	Intrinsic viscosity, dl/g	Mooney viscosity, MV	Oil content, %	Styrene/rubber ratio	Physical form
IR305	Linear	7.8	—	3.6	0/100	Bale
IR307	Linear	7.8	—	0	0/100	Bale
IR309	Linear	8	45	3.6	0/100	Bale
IR310	Linear	8	45	0	0/100	Bale
IR401	Latex, linear	7.8	—	—	0/100	Latex

Waterborne tackifier dispersions 13 grades

Typical uses: tackifying natural rubber, C-SBR, SBR, polychloroprene and acrylic latices; waterborne adhesives.

Kraton

AQUATAC

Waterborne tackifier dispersions with high solids, for natural rubber, SBR, polychloroprene and acrylic latices.

Grade	Softening point (base resin), °C	Solid content, %	Viscosity, mPa.s	pH
AQUATAC 6025	30	62	5700	7.4
AQUATAC 6085	82	61	5200	7.3
AQUATAC FC-8560	83	60	610	8.2
AQUATAC XR-4343	85	60	780	8.5
AQUATAC 2685	85	58	720	8.8

DRT

DERMULSENE

Water-based dispersions of rosin acid, rosin esters and terpene phenolic resins, for adhesives.

Grade	Type	Solid content, %	pH	Softening point (base resin), °C	Applications
DERMULSENE DEG	Rosin ester	50	8.5	40	Adhesives
DERMULSENE 222	Rosin ester + terpene resin	54	8.5	45	Adhesives
DERMULSENE RE 802	Rosin ester	52	7.5	70	Adhesives
DERMULSENE HBR 509	Rosin ester + hydrocarbon resin	53	8	70	Adhesives
DERMULSENE A 7510	Rosin acid	57	7.8	75	Adhesives
DERMULSENE RE 1513	Rosin ester	56	9	76	Adhesives
DERMULSENE TR 501	Terpene phenolic resin	55	8.5	78	Adhesives
DERMULSENE TR 602	Terpene phenolic resin	55	8.5	96	Adhesives

Water-dispersible polyesters 8 grades

Synthomer

Eastman AQ

Water-dispersible polyesters in branched and linear structures.

Grade	Polymer structure	Odor	Melt viscosity @177°C, cP	Softening point, °C	Tg °C	Gardner color (melt)	Hydroxyl number
Eastman AQ 2150	Branched	—	15000	80	9	5	16
Eastman AQ 1045	Branched	Slight	4500	85	-5	4	47
Eastman AQ 2350	Branched	—	39000	92	11	5	12
Eastman AQ 1350	Branched	Slight	35000	105	-2	4	51
Eastman AQ 1950	Branched	Slight	95000	115	3	4	57
Eastman AQ 14000	Branched	Slight	400000	133	7	4	51
Eastman AQ 38S	Linear	—	9,700 Poise @200°C	—	38	—	<10
Eastman AQ 55S	Linear	—	42,000 Poise @200°C	—	55	—	<10

Non-reactive modifiers 4 grades

RÜTGERS

RUETASOLV

Non-reactive modifiers based on naphthalene or biphenyl derivatives, for high-boiling applications.

Grade	Density at 20°C, g/ml	Boiling point, °C	Purity, %	Composition
Ruetasolv DI	0.9450-0.9650	290-300	>98	Diisopropylnaphthalene
Ruetasolv BP D	0.9450-0.9750	304-337	>75	Diisopropylbiphenyl
Ruetasolv BP M	0.9750-0.9850	293-315	>90	Isopropylbiphenyl
Ruetasolv LK 6030	0.9900-1.1500	290-440	—	Blend of diisopropylnaphthalene and liquid aromatic resin

Epoxy modifier resins 4 grades

Typical uses: marine and industrial maintenance coatings, aluminum and bronze paints, alkyd and polyurethane coatings, epoxy coatings and adhesives.

Neville

NEVOXY, NEVILLAC

Epoxy modifier resins for marine, industrial maintenance, polyurethane and epoxy coatings.

Grade	Hydroxyl number	Gardner color	Brookfield viscosity, cps @25°C	Applications
NEVILLAC 10° XL	NA	3	4700	Coatings: industrial and maintenance, aluminum/bronze paint, alkyd, polyurethane
NEVOXY EPX-L2	50	1	130	Marine, industrial maintenance, polyurethane, epoxy
NEVOXY EPX-L	65	1	1000	Marine, industrial maintenance, polyurethane, epoxy
NEVOXY EPX-LH	98	1.5	2350	Marine, industrial maintenance, polyurethane, epoxy

Antioxidants 1 grade

Typical uses: SIS, SBS, SBR and natural rubber PSA, EVA hot melts, construction adhesives, latex SBR mastics.

Neville

NEVASTAIN

Non-staining antioxidant for PSA, EVA hot-melt adhesives, construction adhesives and mastics.

Grade	Gardner color	Brookfield viscosity, cps @25°C	Applications
NEVASTAIN 21	3	5000	Adhesives & sealants: PSA (SIS/SBS), PSA (SBR), PSA (natural rubber), EVA hot melt, construction adhesives, mastics