



Sustainable Solutions.
Endless Innovation.™



**Power the Future
of Innovation**

Kraton Polymer Product Guide



Engineered to Enhance Lives

Kraton Corporation develops, manufactures and markets biobased chemicals and specialty polymers that deliver exceptional value and enhance the lives of people all over the world. As a leading global producer of styrenic block copolymers (SBC) and pine chemicals, we manufacture high-performance materials that differentiate our customers' products and meet multi-market needs. Our global footprint, reliable supply, extensive expertise and integrated portfolio of high-quality products enable our customers to push the boundaries of performance to power the future of innovation. Kraton invented and commercialized SBC more than 50 years ago – and we continue to redefine the industry through our commitment to research and sustainability.



We contribute to the circular economy by enabling a holistic approach to plastic product life cycle. We offer versatile multi-resin compatibilization in a wide range of applications for virgin materials, bioplastics and post-consumer and industrial plastic recycling streams. Kraton also collaborates with customers on life cycle assessments to produce data on both product performance and environmental impact throughout the value chain. These insights enable us to advance and create sustainable solutions that meet market demands. Learn more about our new CirKular+™ product line, which is designed for plastics upcycling and bioplastics performance enhancement, at [cirkularplus.com](https://www.kraton.com/cirkularplus.com).



Kraton™ Polymer Families

Kraton SBC are a unique class of elastomers with a two-phase structure of hard polystyrene endblocks and soft rubber midblocks. This distinctive combination imparts both strength and elasticity – a versatility that makes our technologies compatible with polyolefins, styrenic polymers, engineering thermoplastic polymers, oils and tackifying resins.

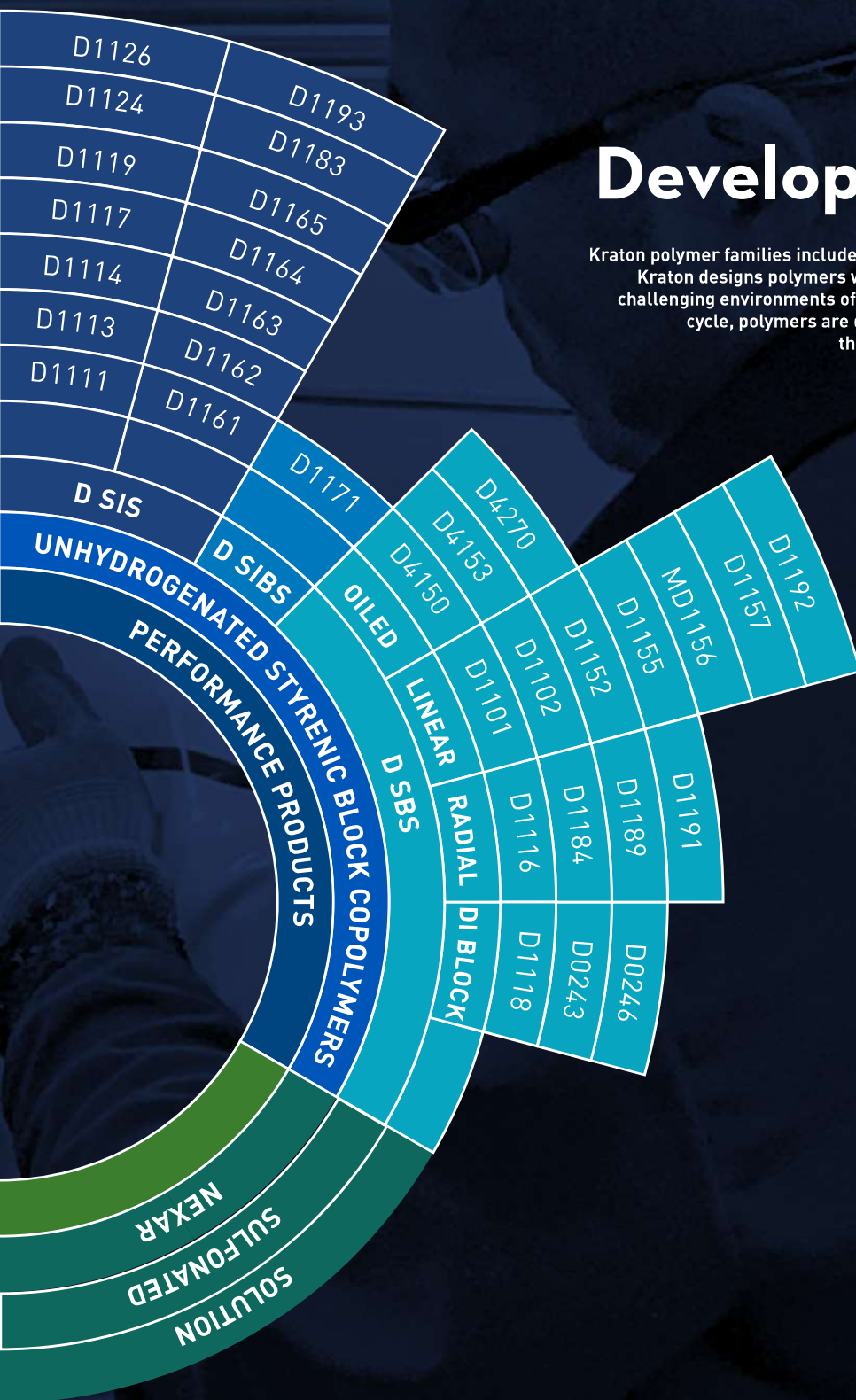
Through precision chemistry and property control, Kraton technologies can enhance other polymers, offering new rheology and compatibility benefits rarely seen in today's market. Kraton SBC also allow for post-process and application recyclability – offering clean, high-performance products with specific FDA clearances in food contact and USP requirements in medical applications.



Market Development Grades

Kraton polymer families include D, G, A and FG as described below. As an innovator, Kraton designs polymers with performance-expanding properties to meet the challenging environments of new and existing markets. During the development cycle, polymers are designated with an MD before the number to denote this is in the design phase prior to commercialization.

Kraton reserves the right to change specifications and/or discontinue production of the product.



Versatile. Compatible. Strong. Innovative.

Performance Products

Our Performance Products business develops and manufactures technologies consisting of unhydrogenated styrenic block copolymers (USBC) marketed under the Kraton™ D brand, which are found in paving, roofing, adhesives and sealant materials. When excellent low temperature flexibility is desired, Kraton D grades are the first choice for customers. The grades are compatible with polyethylene and polystyrene, and some may be crosslinked for enhanced properties and performance.

Kraton™ D SIS Polymer Grades

Property	D1111	D1113	D1114	D1117	D1119	D1124	
Tensile Strength, MPa ^{1,2}	20	8	32	11	4	19	
300% Modulus, MPa ^{1,2}	1.4	0.3	1.9	0.4	1.1	3	
Elongation at Break, % ^{1,2}	1,200	1,700	1,300	1,400	1,100	1,200	
Set at Break, % ^{1,2}	10	20	-	15	20	26	
Hardness (10s), Shore A ³	45	23	42	33	30	54	
Specific Gravity	0.93	0.92	0.92	0.92	0.93	0.94	
Brookfield Viscosity, mPa.s (or cP)							
25% w ⁴	1,100	600	900	500	340	340	
Melt Flow Rate (MFR), g/10 min							
200 °C /5kg	3	17	9	27	23	4	
Styrene/Rubber Weight Ratio ⁵	22/78	16/84	19/81	17/83	22/78	30/70	
Diblock Content, % ⁵	18	55	<1	33	66	30	
Polymer Structure ⁵	Linear	Linear	Linear	Linear	Linear	Radial	
Oil Content, %w	-	-	-	-	-	-	
Physical Form	Porous Pellet	Dense Pellet	Dense Pellet	Dense Pellet	Dense Pellet	Dense/Porous Pellet	
Comments ⁶	FDA	FDA	FDA	FDA	FDA	FDA	

(1) ASTM method D412 tensile.

(2) Typical properties determined on film cast from toluene solution.

(3) Typical values on polymer compression molded at 170-200°C.

(4) Neat polymer concentration in toluene at 25 °C.

(5) Related to SBC polymer fraction.

(6) For specific FDA clearances, letters will be provided upon request.

These are typical values and should not be used to set specifications.

Kraton™ USBC Product Families

Family	Applications	Features	Benefits
SIS Styrene-Isoprene-Styrene	Adhesives Elastic films Flexographic printing plates	High strength Lowest hardness of all SBC Crosslinkable Excellent elasticity FDA compliant	Easy thermoplastic processing Processed as melt or in solution Compatible with multiple tackifying chemistries Soft stretch and drape
SBS Styrene-Butadiene-Styrene	Asphalt modification (paving/roofing) Footwear Adhesives Thermoformed clear rigid packaging Flexographic printing plates Elastic films	Wide hardness range Low viscosity Cross-linkable Exceptional cohesive strength Elasticity FDA compliant	Superior resistance to asphalt rutting, cracking Processed as melt or in solution High strength
SIBS Styrene-Isoprene/ Butadiene-Styrene	Adhesives	Unique midblock structure Transparency Sprayability Low temperature tack Cross-linkable reinforcements FDA compliant	Allows for better hot-melt stability Formulating latitude Processed as melt or in solution

	D1126	D1161	D1162	D1163	D1164	D1165	D1183	D1193
	8	21	22	10	28	21	14	20
	2.5	0.9	-	0.5	3.1	3	-	2.6
	1,400	1,300	1,200	1,400	1,100	1,200	1,750	1,300
	-	-	-	-	-	-	-	20
	44	32	86	25	53	59	-	53
	0.92	0.92	0.95	0.92	0.94	0.93	0.92	0.93
	500	1,200	120	900	300	330	1,050	400
	15	12	44	22	12	7	14	14
	19/81	15/85	44/56	15/85	29/71	30/70	16/84	24/76
	30	19	<1	38	<1	20	38	20
	Radial	Linear	Linear	Linear	Linear	Linear	Linear	Linear
	-	-	-	-	-	-	-	-
	Dense Pellet	Dense/Porous Pellet	Dense Pellet	Dense Pellet	Dense Pellet	Dense Pellet	Dense Pellet	Dense Pellet
	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA

Kraton™ D SIBS Polymer Grades

Property	D1171
Note Tensile Strength, MPa ^{1,2}	9
300% Modulus, MPa ^{1,2}	2.1
Elongation at Break, % ^{1,2}	1,250
Set at Break, % ^{1,2}	-
Hardness (10 sec), Shore A ³	45
Specific Gravity	0.92
Brookfield Viscosity, mPa.s (or cP)	
25%w ⁴	1,000
Melt Flow Rate (MFR), g/10 min	
200°C/5kg	11
Styrene/Rubber Weight Ratio	20/80
Diblock, %	26
Polymer Structure	Linear
Physical Form	Dense Pellet
Comments ⁵	FDA
(1) ASTM method D412. (2) Typical properties determined on film cast from toluene solution. (3) Typical values on polymer compression molded at 170-200°C. (4) Neat polymer concentration in toluene, 25 °C. (5) For specific FDA clearances, letters will be provided upon request.	

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Kraton™ D SBS Polymer Grades

Property	D1101	D1102	D1116	D1118	D1152	D1155	MD1156	
Tensile Strength, MPa ^{1,2}	32	26	32	2	29	28	31	
300% Modulus, MPa ^{1,2}	2.8	3.8	2.4	1.2	4.1	2.9		
Elongation at Break, % ^{1,2}	880	1,100	900	600	1,100	800	800	
Set at Break, % ^{1,2}	10	10	10	40	10	-		
Hardness (10s), Shore A ³	72	63	63	74	70	87		
Specific Gravity	0.94	0.94	0.94	0.94	0.94	0.94	0.94	
Brookfield Viscosity, mPa.s (or cP)								
25% w ⁴	4,000	1,000	9,000	630	1,200	600	600	
15% w ⁴	-	-	-	-	-	-		
Melt Flow Rate (MFR), g/10 min								
200 °C /5kg	<1	14	<1	10	7	11	8	
Styrene/Rubber Weight Ratio ⁵	31/69	29/71	23/77	33/67	30/70	40/60	40/60	
Diblock Content, % ⁵	16	17	16	78	15	<1	<1	
Polymer Structure ⁵	Linear	Linear	Radial	Diblock	Linear	Linear	Linear	
Oil Content, %w	-	-	-	-	-	-	-	
Physical Form	Porous Pellet / Powder	Porous Pellet	Porous Pellet / Powder	Porous Pellet / Powder	Porous Pellet	Porous Pellet	Porous Pellet	
Comments ⁶	FDA	FDA	FDA	FDA	FDA	FDA	FDA	
(1) ASTM method D412 tensile. (2) Typical properties determined on film cast from toluene solution. (3) Typical values on polymer compression molded at 170-200°C. (4) Neat polymer concentration in toluene, 25 °C. (5) Related to SBC polymer fraction. (6) For specific FDA clearances, letters will be provided upon request.								

These are typical values and should not be used to set specifications.



	D1157	D1184	D1189	D0243	D0246	D1191	D1192	D4150	D4153	D4270
								Oiled		
	28	28	-	2		-	-	19 ^[3]	10 ^[3]	12 ^[3]
	2.9	5.5	-	1		-	-	1,1 ^[3]	2,5 ^[3]	1,9 ^[3]
	800	820	-	-		-	-	1,400 ^[3]	1,000 ^[3]	1,100 ^[3]
	-	10	-	-		-	-	25	15	-
	70	74	68	70	70	70	70	45	45	46
	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.92	0.94	0.94
	1,600	>20,000	-	315		>20,000	1,500	-	-	-
	-	1,100	650	-		700	-	-	-	-
	5	<1	<1	20		<1	<1	10	30	15
	29/71	31/69	32/68	33/67	26/74	33/67	30/70	31/69	35/65	32/68
	<1	16	16	75	55	18	<1	-	-	-
	Linear	Radial	Radial	Diblock	Diblock	Radial	Linear	Linear	Linear	Radial
	-	-	-	-		-	-	33	30.5	31
	Porous Pellet	Porous Pellet / Powder	Porous Pellet / Powder	Porous Pellet	Porous Pellet	Porous Pellet / Powder	Porous Pellet / Powder	Porous Pellet	Porous Pellet	Porous Pellet
	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	-

Specialty Polymers

Our Specialty Polymers business includes hydrogenated block copolymers (HSBC) marketed under the brands Kraton™ G, A and FG. Kraton G grades offer a higher service temperature range, improved compression set and can accept high loadings of oils and fillers for compounding. They are ideal for uses where improved UV and ozone resistance are required. They can be sterilized through a variety of methods and are compatible with polyolefins. Kraton G ERS are enhanced rubber segments polymers, which are highly compatible with polyolefins. In addition, Kraton HSBC polymers are manufactured in various physical forms. We have introduced the free-flowing version of several powder form grades, which enables more efficient processing, unpacking and handling.

Kraton A grades offer improved tear strength and enhanced flow with isotropic properties. These grades provide better compatibility with more polar chemistries. Select Kraton G and Kraton A grades are FDA compliant and USP Class VI. Kraton FG grades are maleic anhydride functionalized to provide performance enhancements in engineering thermoplastics.

Kraton™ G SEBS Polymer Grades

Property	G1633	G1650	G1651	G1652	MD1653	
Tensile Strength, MPa ^{1,2}	-	35	>28	31	>28	
300% Modulus, MPa ^{1,2}	-	5.6	-	4.8	-	
Elongation at Break, % ^{1,2}	-	500	>800	500	500	
Hardness (10s), Shore A ³	-	72	70	69	70	
Specific Gravity	0.91	0.91	0.91	0.91	0.90	
Brookfield Viscosity, mPa.s (or cP)						
25% w ⁴	>50,000	8,000	>50,000	1,800 ⁷	440	
15% w ⁴	>30,000	50	1,800 ⁷	30	-	
Melt Flow Rate (MFR), g/10 min						
200 °C /5kg	<1	<1	<1	<1	-	
230°C/5kg	<1	<1	<1	5	28 ⁸	
Styrene/Rubber Weight Ratio ⁵	30/70	30/70	33/67	30/70	31/69	
Diblock Content, % ⁵	<1	<1	<1	<1	7	
Polymer Structure ⁵	Linear	Linear	Linear	Linear	Linear	
Oil Content, %w	-	-	-	-	-	
Physical Form	Fluffy Crumb	Powder/Crumb	Powder/Crumb	Powder/Crumb	Dense Pellet	
Comments ⁶	FDA	FDA	FDA	FDA	FDA	

(1) ASTM method D412 tensile.

(2) Typical properties determined on film cast from toluene solution.

(3) Typical values on polymer compression molded at 200-230 °C.

(4) Neat polymer concentration in toluene at 25 °C.

(5) Related to SBC polymer fraction.

(6) For specific FDA clearances, letters will be provided upon request.

(7) Measured at 10% w neat polymer concentration in toluene at 25 °C.

(8) Measured at 230 °C/2.16kg.

These are typical values and should not be used to set specifications.

Kraton™ HSBC Family of Products

Family	Applications	Features	Benefits
Kraton G SEBS & SEP(S) Styrene-Ethylene/ Butylene-Styrene Styrene-Ethylene/ Propylene-Styrene	Soft, strong handles and grips 2K overmolding for polyolefins Elastic films Multi-layer films for medical, food and beverage Automotive interior and exterior Cable gels Cosmetics Adhesives Oilfields Rigid and flexible packaging Base oil modification Medical tubing	High strength Highly dilutive Compatible with polyolefins and mineral oils Widest molecular weight range Low temperature impact FDA Compliant and USP Class VI Recyclability Silicone replacement	Excellent UV, thermal and color stability Low compression set Very good elasticity Improved compound flow Gels or thickens paraffin oils Efficient viscosity modification Suspension of heavier materials Enables circular economy High impact resistance and durability Packaging aesthetics Plastic product recyclability Cost efficient formulation
Kraton G ERS Enhanced Rubber Segment Styrene-Ethylene/ Butylene-Styrene	Medical tubing and IV bags Food and beverage containers Drinking water systems Protective films Automotive skins Elastic films Adhesives	Improved PP compatibility Improved clarity with PP Improved flow Widest melt flow range Softer than conventional Kraton G FDA compliant, USP Class VI and ISO 10993	Proven PVC alternative Ultra-clean and plasticizer-free Transparent overmolding Soft, elastic and good flow Suits all common sterilization methods
Kraton A Styrene-Ethylene/ Butylene/Styrene- Styrene	Wire and cables 2K overmolding Protective films Consumer products	Improved flow (isotropic properties) Compatibility with polystyrene and polar polymers Improved tear strength Compatible with natural and polar oils FDA compliant and USP Class VI	Highly transparent products Gels or thickens natural oils Enhanced filler loading Sound dampening
Kraton FG Maleic Anhydride (MA) Functionalized Styrene-Ethylene/ Butylene-Styrene	Natural fiber composites Adhesives Plastics recycling (compatibilizing of mixed recycled streams) Coatings Performance enhancement of engineering thermoplastics	High MA content High thermal stability Impact improver Oil and biobased materials compatibilizer Adhesion to polar substrates Recyclability Maintains transparency	Tough products Ductile failure mode High processing temperature stability New material combinations Enhanced mechanical properties High impact resistance Increased reusability of end plastic product Plastic product recyclability Broad design options and excellent coloring

	G1654	G1657	G1660	G1726	E1830	G4609	G4610
						Oiled	
	>27	23	32	2	>24	-	-
	-	2.4	5.5	-	5.5	-	-
	>800	750	800	200	>800	-	-
	70	47	68	60	61	22	36
	0.92	0.89	0.91	0.91	0.91	-	-
	>50,000	4,200	8,000	200	>50,000	11,000	>50,000
	400	65	50	10	1,600 ⁷	50	240
	<1	8	<1	65	<1	<1	<1
	<1	22	<1	>100	<1	<1	<1
	31/69	13/87	31/69	30/70	33/67	33/67	33/67
	<1	29	<1	70	7	<1	<1
	Linear	Linear	Linear	Linear	Linear	Linear	Linear
	-	-	-	-	-	45	31
	Powder/Crumb	Dense Pellet	Powder	Dense Pellet	Powder/Crumb	Powder	Powder
	FDA	FDA	FDA	FDA	FDA	FDA	FDA

Kraton™ G SEP(S)/EP Polymer Grades

Property	G1701	G1702	G1730	G1750	G1765
					Oiled
Tensile Strength, MPa ^{1,2}	2	2	20	<0.3	<0.3
300% Modulus, MPa ^{1,2}	-	-	-	-	-
Elongation at Break, % ^{1,2}	<100	<100	>800	100	120
Hardness (10s), Shore A ³	64	41	61	11	12
Specific Gravity	0.92	0.91	0.9	0.86	0.86
Brookfield Viscosity, mPa.s (or cps)					
25% w ⁴	>50,000	50,000	2,000	8,700	12,800
15% w ⁴	-	280	35	140	1,805
Melt Flow Rate (MFR), g/10 min					
200 °C /5kg	<1	<1	3	8	4
230°C/5kg	<1	<1	11	-	-
Styrene/Rubber Weight Ratio ⁵	37/63	28/72	20/80	0/100	0/100
Diblock Content, % ⁵	100	100	<1	-	-
Polymer Structure ⁵	Diblock	Diblock	Linear	Star	Star
Oil Content, %w	-	-	-	-	12
Physical Form	Powder	Powder	Dense Pellet	Bale	Bale
Comments ⁶	FDA	FDA	FDA	FDA	FDA
(1) ASTM method D412 tensile. (2) Typical properties determined on film cast from toluene solution. (3) Typical values on polymer compression molded at 200-230°C. (4) Neat polymer concentration in toluene at 25 °C. (5) Related to SBC polymer fraction. (6) For specific FDA clearances, letters will be provided upon request.					

These are typical values and should not be used to set specifications.

Kraton™ G ERS Polymer Grades

Property	G1640	G1641	G1642	G1643	G1645	G1646	MD1648
	ERS						
Tensile Strength, MPa ^{1,2}	>20	>17	>21	>10	10	13	11
300% Modulus, MPa ^{1,2}	4.5	4.3	-	-	-	0.8	-
Elongation at Break, % ^{1,2}	>800	>800	>1,200	>600	600	1400	750
Hardness (10s), Shore A ³	60	58	48	52	35	41	52
Specific Gravity	0.91	0.91	0.9	0.9	0.89	0.94	0.90
Brookfield Viscosity, mPa.s (or cP)							
25% w ⁴	>50,000	>50,000	1,300	210	650	-	90
15% w ⁴	1,500	650	-	-	-	-	-
Melt Flow Rate (MFR), g/10 min							
230°C/2,16kg	<1	<1	<1	19	3.5	12.0	220
230°C/5kg	<1	<1	<1	75	13		-
Styrene/Rubber Weight Ratio ⁵	32/68	33/67	21/79	19/81	13/87	13/87	20/80
Diblock Content, % ⁵	<1	<1	<1	7	7	<5	7
Polymer Structure ⁵	Linear	Linear	Linear	Linear	Linear	Radial	Linear
Oil Content, %w	-	-	-	-	-	-	-
Physical Form	Fluffy Crumb	Powder	Powder	Dense Pellet	Dense Pellet	Pellet	Dense Pellet
Comments ⁶	FDA	FDA	FDA	FDA	FDA	-	FDA
(1) ASTM method D412 tensile. (2) Typical properties determined on film cast from toluene solution. (3) Typical values on polymer compression molded at 200-230°C. (4) Neat polymer concentration in toluene at 25 °C. (5) Related to SBC polymer fraction. (6) For specific FDA clearances, letters will be provided upon request.							

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Kraton™ A Polymer Grades

Property	A1535	A1536	MD6951
Tensile Strength, MPa ^{1,2}	28	>34	18 ⁽³⁾
300% Modulus, MPa ^{1,2}	7.9	6.4	3 ⁽³⁾
Elongation at Break, % ^{1,2}	>600	660	750 ⁽³⁾
Hardness (10s), Shore A ³	83	65	46
Specific Gravity	0.96	0.93	-
Brookfield Viscosity, mPa.s (or cps)			
25% w ⁴	-	-	380
15% w ⁴	1,600	465	-
Melt Flow Rate (MFR), g/10 min			
230°C/2,16kg	<1	<1	48
230°C/5kg	<1	3	-
Styrene/Rubber Weight Ratio ⁵	58/42	42/58	35/65
Diblock Content, % ⁵	<1	<1	7
Polymer Structure ⁵	Linear	Linear	Linear
Oil Content, %w	-	-	-
Physical Form	Powder	Powder	Dense Pellet
Comment ⁶	FDA	FDA	FDA

(1) ASTM method D412 tensile.
 (2) Typical properties determined on film cast from toluene solution.
 (3) Typical values on polymer compression molded at 200-230°C.
 (4) Neat polymer concentration in toluene at 25 °C.
 (5) Related to SBC polymer fraction.
 (6) For specific FDA clearances, letters will be provided upon request.

These are typical values and should not be used to set specifications.

Kraton™ FG Functionalized Polymer Grades

Property	FG1901	FG1924	MD6684
Tensile Strength, MPa ^{1,2}	35	20	>20
300% Modulus, MPa ^{1,2}	5	2.5	4.5
Elongation at Break, % ^{1,2}	500	750	>800
Hardness (10s), Shore A ³	75	50	60
Specific Gravity	0.92	-	0.91
Brookfield Viscosity ⁴ , mPa.s (or cP)			
25%w ⁴	-	-	-
10%w ⁴	100	300	-
Melt Flow Rate (MFR), g/10 min			
200°C/5kg	5	11	10
230°C/5kg	-	-	10
Styrene/Rubber Weight Ratio ⁵	30/70	13/87	30/70
Diblock Content, % ⁵	-	30	-
Polymer Structure ⁵	Linear	Linear	Linear
Bound MA Content, %w	1.7	1	1
Physical Form	Dense Pellet	Dense Pellet	Powder
Comments ⁶	FDA	FDA	FDA

(1) ASTM method D412 tensile.
 (2) Typical properties determined on film cast from toluene solution.
 (3) Typical values on polymer compression molded at 177 °C.
 (4) Typical values on polymer compression molded at 177 °C.
 (5) Related to SBC polymer fraction.
 (6) For specific FDA clearances, letters will be provided upon request.

These are typical values and should not be used to set specifications.

Kraton™ Polymers

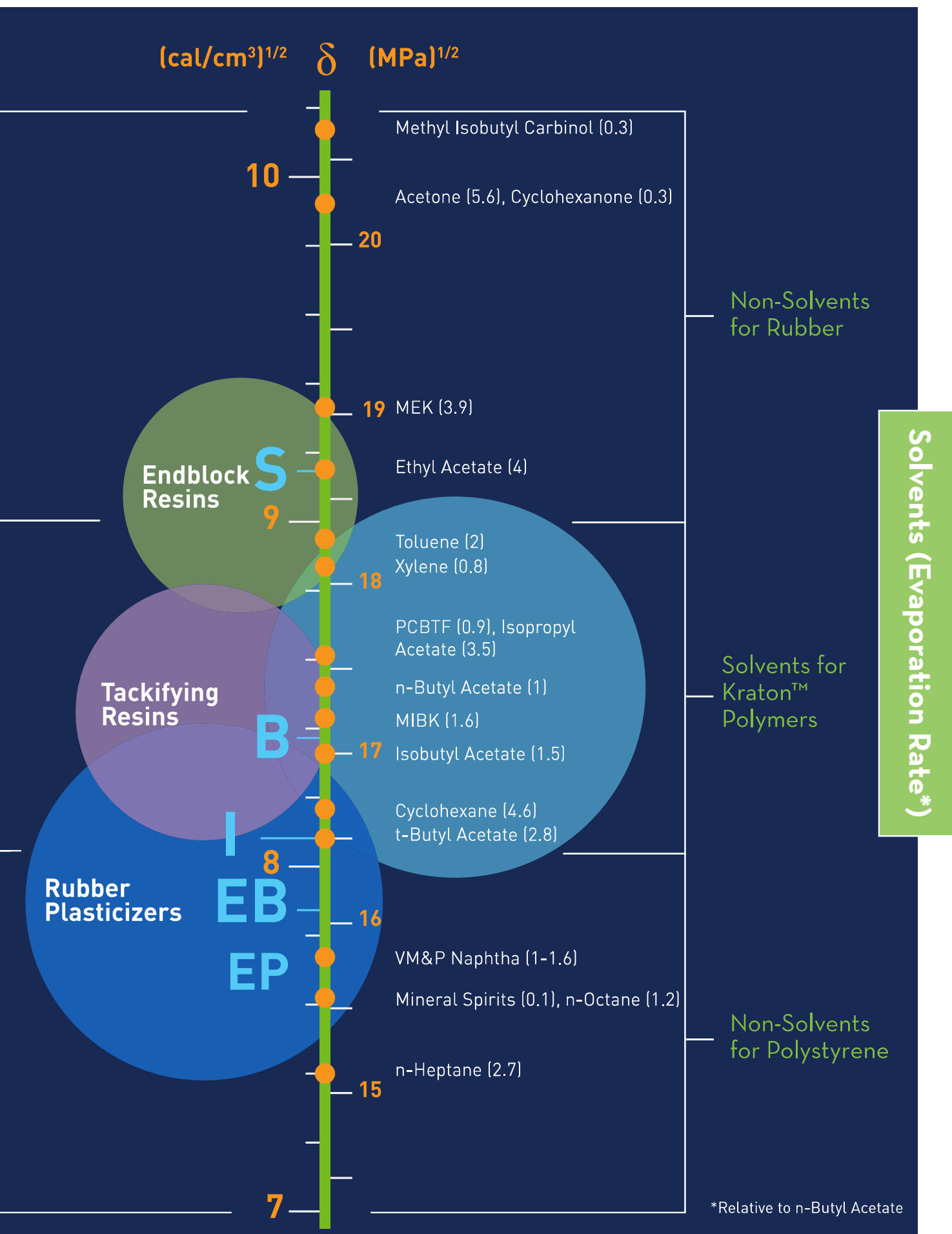
Miscibility & Solubility

Co-Ingredients

PPE
C9 Resins (PS, α MePS)
Aromatic Plasticizers

Asphalt
Anti-Oxidants
H2 C9 Tackifying Resins
Rosin Resins (SYLVALITE™, SYLVATAC™ resins)
Naphthenic Plasticizers
C5 resins
Terpenes (SYLVARES™ resins)

Paraffinic Plasticizers
Liquid Rubbers
APAO
Greases, Waxes



SOLUBILITY PARAMETER

About Kraton Corporation

Kraton Corporation (NYSE "KRA") is a leading global producer of styrenic block copolymers, specialty polymers and high-value performance products derived from pine wood pulping co-products. Kraton's polymers are used in a wide range of applications, including adhesives, coatings, consumer and personal care products, sealants and lubricants, and medical, packaging, automotive, paving, roofing and footwear products. As the largest global provider in the pine chemicals industry, the company's pine-based specialty products are sold into adhesive, road and construction and tire markets, and it produces and sells a broad range of performance chemicals into markets that include fuel additives, oilfield chemicals, coatings, metalworking fluids and lubricants, inks, flavors and fragrances and mining. Kraton offers its products to a diverse customer base in over 70 countries worldwide.



Sustainable Solutions. Endless Innovation.™

Kraton Corporation (NYSE:KRA)

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