KRATON

K0527
Japan
2/15/2023

KRATON™ D1102 J Polymer

Data Document

Identifier : K527DDe23A

Description

Kraton D1102 J is a clear linear block copolymer based on styrene and butadiene with bound styrene of 30% mass. It is supplied from Japan in the physical form(s) identified below in the grade nomenclature:

- Kraton D1102 JSZ - supplied as crumbs dusted with amorphous silica

Kraton D1102 J is used as an ingredient in formulating adhesives, sealants and coatings. It may also find use as a modifier of bitumen and polymers.

Sales Specifications

Property	Test Method	Units	Sales Specification Range	Notes
Volatile Matter	KM 04	%m	<= 1.00	
Vis, Sol (Toluene) 25.0%w @25C	KM 06	Pa.s	0.8 TO 1.6	
Ash (JSZ)	ISO 247	%m	<= 1.0	

Typical Properties (These are typical values and may not routinely be measured on finished product)

Property	Test Method	Units	Typical Value	Notes
300% Modulus	ISO 37	MPa	2.9	
Hardness, Shore A (30 sec)	ISO 7619		70	
Polystyrene Content	KM03	%m	30	
Specific Gravity	ISO 2781		0.94	
Tensile Strength	ISO 37	Mpa	33	
Elongation at Break	ISO 37	%	880	
Melt Flow Rate, 200C/5kg	ISO 1133	g/10min.	6	

Packaging

Kraton's products are available in a number of different package types. For information specific to this grade, please contact your local Kraton representative.

End Use Requirements

The end user of the product is solely responsible to comply with all regulatory and testing requirements applicable to the end use of the finished article incorporating the product.
Information regarding the regulatory status of the product is available from Kraton on request.

Safety and Handling Precautions

Read the GHS Data Sheet carefully and thoroughly before handling and using the product. If you are unable to locate the GHS Safety Data Sheet from www.kraton.com, please contact the Product Safety support team at product.safety@kraton.com.

Legal Disclaimer

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For Further Information

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KRATON™ D SBS POLYMER GRADES

															Oiled		
Property	D0243	D1101	D1102	D1116	D1118	D1152	D1155	MD1156	D1157	D1184	D1191	D1192	D1194	MD1195	D4150	D4153	D4270
Tensile Strength, MPa[1,2]	2	32	26	32	2	29	28	31	28	28	-	-	28	-	19[3]	10[3]	12[3]
300% Modulus, MPa[1,2]	1	3	4	2.5	1	4	3		3	6	-	-	5.5	-	1[3]	2.5[3]	2[3]
Elongation at Break, %[1,2]	-	880	1,100	900	600	1,100	800	800	800	820	-	-	820	-	1,400[3]	1,000[3]	1,100[3]
Hardness (10 sec), Shore A[3]	70	72	63	63	74	70	87	-	70	74	70	70	68	70	45	45	46
Specific Gravity	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.92	0.94	0.94
Brookfield Viscosity (25w%[4]), mPa.s or cP	300	4,000	1,000	9,000	630	1,200	600	600	1600	>20000	>20000	1500	-	-	-	-	-
Melt Flow Rate (MFR), g/10 min (200°C/5kg)	20	<1	14	<1	10	7	11	8	5	<1	<1	<1	<1	<1	10	30	15
Styrenic/Rubbery Units Weight Ratio[5]	33/67	31/69	29/71	23/77	33/67	30/70	40/60	40/60	29/71	31/69	33/67	30/70	31/69	29/71	31/69	35/65	32/68
Diblock Content, %[5]	75	16	16	16	78	15	<1	<1	<1	16	18	<1	18	-	-	-	-
Polymer Structure[5]	Diblock	Linear	Linear	Radial	Diblock	Linear	Linear	Linear	Linear	Radial	Radial	Linear	Radial	Linear	Linear	Linear	Radial
Oil Content, %w	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	30.5	31
Physical Form (Also available)	Porous	(Po) & (Pd)	Porous	(Po) & (Pd)	(Po) & (Pd)	Porous	Porous	Porous	Porous	(Po) & (Pd)	(Po) & (Pd)	(Po) & (Pd)	Porous	Porous	Porous	Porous	Porous
Comments[6]	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	FDA	-	-	FDA	FDA	-