



K0577
Europe
3/9/2023

KRATON™ D1157 E Polymer

Data Document

Identifier : K577DDi23E

Description

Kraton D1157 E is a clear, linear block copolymer based on styrene and butadiene with bound styrene of 29.5% mass. It is supplied from Europe in the physical form(s) identified below in the grade nomenclature:

- Kraton D1157 ES - supplied as porous pellets dusted with amorphous silica
- Kraton D1157 ETM - supplied as powder dusted with talc for the North American market

Kraton D1157 E is used as a modifier of bitumen or thermoplastics and in compound formulations. It may also find use as an ingredient in formulating adhesives, sealants and coatings.

Sales Specifications

Property	Test Method	Units	Sales Specification Range	Notes
Melt Flow, 200C/5000g	ISO 1133	g/10 min	3.5 TO 6.5	
Polystyrene Content	KM 03	%m	28.5 TO 30.5	
Vis, Sol (Toluene) 25.0%w @25C	KM 06	Pa.s	1.3 TO 1.9	
Total Extractables	KM 05	%m	≤ 1.0	
Volatile Matter	KM 04	%m	≤ 0.3	
Antioxidant Content	KM 08	%m	≥ 0.15	
Ash (ES)	ISO 247	%m	0.10 TO 0.40	
Ash (ETM)	BAM 908	%w	4.0 TO 6.0	a

a The final dusting level is a combination of the silica from the original D1157 ES plus talc added during the milling process.

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

Property	Test Method	Units	Typical Value	Notes
Hardness, Shore A (15 sec)	ASTM D 2240	Hardness, Shore A (15 sec)	70	b
Specific Gravity	ISO 2781		0.94	
300% Modulus	ISO 37	MPa	2.9	a
Tensile Strength	ISO 37	Mpa	28	a
Bulk Density	ASTM D 1895 method B	kg/dm3	0.4	
Elongation at Break	ISO 37	%	800	a

a Measured on films cast from a solution in toluene

b Measured on compression molded slabs

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.

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For Further Information

U.S.A Headquarters Kraton Corporation 15710 John F. Kennedy Blvd. Suite 300 Houston, Texas 77032 +1-800-4-KRATON (800-457-2866) info@kraton.com	Asia Pacific Regional Headquarter/ Innovation Center Rm 2201, No.688, West Nan Jing Road Shanghai, 200041, PR China +86 21 2082 3888 info.cn@kraton.com	Europe, Middle East, Africa Kraton Polymers Nederland B.V. Transistorstraat 16 NL - 1322 CE Almere The Netherlands +31 36 546 2846 info@kraton.com
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