



K0577
Europe

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

<u>Property</u>	<u>Test Method</u>	<u>Units</u>	<u>Sales Specification Range</u>	<u>Notes</u>
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)

<u>Property</u>	<u>Test Method</u>	<u>Units</u>	<u>Typical Value</u>	<u>Notes</u>
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.