

Kraton® D4153 E (O/E SBS) Linear Block Copolymer

Category : Polymer , Thermoplastic , Styrene-Butadiene , Styrene/Butadiene/Styrene (SBS)

Material Notes:

Description: Kraton D4153 E is an oil-extended linear block copolymer based on styrene and butadiene with bound styrene in the neat polymer of 35% mass. It contains 40 phr paraffinic oil which is classified as not hazardous. Information on the CAS and EINECS registry numbers of the paraffinic oil used for this grade is available on request. The product is supplied from Europe in the physical form identified: Kraton D4153 ES - supplied as porous pellets dusted with an amorphous silica; Kraton D4153 ESM - supplied as powder dusted with an amorphous silica. Region: North America, Europe, Asia Pacific, Japan, and South America. Uses: Kraton D4153 E is used in formulating compounds for footwear, technical and general purpose applications. It can also be used in formulating adhesives, sealants and coatings and as a modifier of bitumen. Applications: Adhesives, Sealant and Coatings; Bitumen Modification; Compounding and Personal Hygiene; Footwear; Impact Modification; and Roads and Roofing. Information provided by Kraton®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kraton-D4153-E-OE-SBS-Linear-Block-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.940 g/cc	0.940 g/cc	ASTM D792
Bulk Density	0.400 g/cc	0.0145 lb/in ³	ASTM D 1895 method B
Volatiles	<= 0.30 %	<= 0.30 %	KM 04
Melt Flow	23 - 27 g/10 min @Load 5.00 kg, Temperature 200 °C	23 - 27 g/10 min @Load 11.0 lb, Temperature 392 °F	ISO 1133
Ash	0.15 - 0.35 %	0.15 - 0.35 %	ES; ISO 247
	2.5 - 5.0 %	2.5 - 5.0 %	ESM; ISO 247

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	43 - 47 @Time 15.0 sec	43 - 47 @Time 0.00417 hour	Measured on injection molded slabs; ISO 868
Tensile Strength	10.0 MPa	1450 psi	Measured on injection molded slabs; ASTM D412
Elongation at Break	900 %	900 %	Measured on injection molded slabs; ISO 37
300% Modulus	0.00250 GPa	0.363 ksi	Measured on injection molded slab; ISO 37
Abrasion	105	105	[cubic mm], Measured on injection molded slabs; DIN 53516

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
	Polystyrene	34-36%, KM 03
	Total Extractables, Oil	29-32%, KM 05

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