

KRATON® D4153 E

Styrene Butadiene Styrene Block Copolymer

Kraton Polymers LLC

Message:

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 below.

D4153 ES - supplied as porous pellets dusted with an amorphous silica.

D4153 ESM - supplied as powder dusted with amorphous silica.

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.

General Information			
Additive	Antioxidant		
Features	Block Copolymer		
Uses	Adhesives		
	Coating Applications		
	Footwear		
	General Purpose		
	Sealants		
Forms	Pellets		
	Powder		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm ³	ASTM D792
Apparent Density	0.40	g/cm ³	ASTM D1895B
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	23 to 37	g/10 min	ISO 1133
Bound Styrene	34.0 to 36.0	%	Internal Method
Antioxidant Additive	> 0.10	%	Internal Method
Ash Content			ISO 247
ES	0.15 to 0.35	%	
ESM	2.5 to 5.0	%	
Extractables - Total, Oil	29.0 to 32.0	%	Internal Method
Volatile Matter	< 0.30	%	Internal Method
Abrasion	105	mm ³	DIN 53516

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 15 sec, Injection Molded)	43 to 47		ISO 868

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	2.50	MPa	ISO 37
Tensile Stress (Yield)	10.0	MPa	ISO 37

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