

KRATON® D1153 E

Styrene Butadiene Styrene Block Copolymer

Kraton Polymers LLC

Message:

Kraton D1153 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 forms identified below in the grade nomenclature:

Kraton D1153 ES - supplied as porous pellets dusted with amorphous silica

Kraton D1153 ES 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.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Block Copolymer		
Uses	Adhesives		
	Asphalt Modification		
	Coating Applications		
	Plastics Modification		
	Sealants		
Forms	Pellets		
Processing Method	Cast Film		
	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ISO 2781
Apparent Density	0.40	g/cm ³	ASTM D1895B
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ISO 1133
Solution Viscosity ¹	1400 to 1900	mPa · s	Internal Method
Bound Styrene	28.5 to 30.5	%	Internal Method
Antioxidant Additive	> 0.10	%	Internal Method
Ash Content - ES	0.10 to 0.40	%	ISO 247
Molecular Weight - Triblock	123000	g/mol	
Total Extractables	< 1.0	%	Internal Method
Volatile Matter	< 0.30	%	Internal Method
Triblock Content	95	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	70		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	2.90	MPa	ISO 37

Tensile Stress (Yield)	28.0	MPa	ISO 37
Tensile Elongation (Break)	800	%	ISO 37
NOTE			
1.	Toluene, 25%w at 25°C		

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