KRATON® D1153 A

Styrene Butadiene Styrene Block Copolymer

Kraton Polymers LLC

Message:

Kraton D1153 A 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 D1153 AS - supplied as porous pellets dusted with amorphous silica
Kraton D1153 AT - supplied as porous pellets dusted with talc
Kraton D1153 A 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 Copolymer
Uses	Adhesives Coating Applications Compounding Sealants
Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Coating Compounding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm³	ISO 2781
Apparent Density	0.40	g/cm³	ASTM D1895B
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	g/10 min	ISO 1133
Antioxidant Additive	> 0.10	%	Internal Method
Ash Content			ISO 247
AS	0.10 to 0.40	%	
AT	0.10 to 0.40	%	
Polystyrene Content	29 to 31	%	Internal Method
Solution Viscosity - (Toluene) 25%wt (25°C)	1.4 to 1.9	Pa·s	Internal Method
Total Extractables	< 1.0	%	Internal Method
Volatile Matter	< 0.30	%	Internal Method
Apparent Molecular Mass of Triblock	123000	g/mol	Internal Method
Triblock Content	95	%	Internal Method

Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore A, 15 sec, Compression Molded)	70		ASTM D2240

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress [1] (300% Strain)	2.90	MPa	ISO 37
Tensile Strength [2] (Yield)	28.0	MPa	ISO 37
Tensile Elongation [3] (Break)	800	%	ISO 37

NOTE	
1.	Typical properties determined on film cast from toluene solution
2.	Typical properties determined on film cast from toluene solution
3.	Typical properties determined on film cast from toluene solution

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