

KRATON® D1160 E

Styrene Isoprene Styrene Block Copolymer

Kraton Polymers LLC

Message:

Kraton D1160 E is a clear linear triblock copolymer based on styrene and isoprene with bound styrene of 18.5% mass. It is supplied from Europe in the physical form identified below.

D1160 ES - supplied as porous pellets dusted with silica

D1160 EU - supplied as undusted porous pellets

Kraton D1160 E is used in formulating adhesives, in particular hot melt pressure sensitive adhesives.

General Information	
Additive	Antioxidant (600 ppm)
Features	Copolymer
Uses	Adhesives
Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Cast Film Compression Molding

Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ISO 2781
Apparent Density	0.35	g/cm ³	ASTM D1895B
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	9.0	g/10 min	ISO 1133
Bound Styrene	17.4 to 20.5	%	Internal Method
Antioxidant Additive ¹	> 0.1	wt%	Internal Method
Ash Content - S	0.1 to 0.4	wt%	ISO 247-B
Molecular Weight	168000 to 188000	g/mol	Internal Method
Solution Viscosity ² (25°C)	1.0	Pa · s	Internal Method
Total Extractables	< 1.0	wt%	Internal Method
Volatile Matter	< 0.30	wt%	Internal Method

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore A, 30 sec, Compression Molded)	48		ISO 868

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	1.90	MPa	ISO 37
Tensile Stress (Yield)	32.0	MPa	ISO 37
Tensile Elongation (Break)	1300	%	ISO 37

NOTE

1. Primary phenolic antioxidant

2. Measured on 25% mass solution in toluene using a Brookfield viscometer, LTF or LTV model.

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