

KRATON® D1161 E

Styrene Isoprene Styrene Block Copolymer

Kraton Polymers LLC

Message:

Kraton D1161 E is a clear, linear triblock copolymer based on styrene and isoprene with a polystyrene content of 15%. It is supplied from Europe in the physical form identified below.

D1161 ES - supplied as porous pellets dusted with silica

D1161 EU - supplied as undusted porous pellets

D1161 ESM - supplied as powder dusted with amorphous silica

Kraton D1161 E is used as an ingredient in formulating adhesives, sealants and coatings. It may also find use as a modifier of bitumen and polymers.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Block Copolymer		
Uses	Adhesives		
	Coating Applications		
	Sealants		
Appearance	Clear/Transparent		
Forms	Pellets		
	Powder		
Physical	Nominal Value	Unit	Test Method
Density	0.920	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
Solution Viscosity ¹	1200	mPa · s	Internal Method
Antioxidant Additive	> 0.060	%	Internal Method
Ash Content			ISO 247
ES	0.10 to 0.40	%	
ESM	2.5 to 5.0	%	
ET	0.10 to 0.40	%	
EU	< 0.20	%	
Extractables	< 1.0	%	Internal Method
Molecular Weight	207000 to 237000	g/mol	Internal Method
Polystyrene Content	14 to 17	%	Internal Method
Volatile Matter	< 0.30	%	Internal Method
Coupling Efficiency	78 to 84	%	Internal Method
Hardness	Nominal Value	Unit	Test Method

Shore Hardness (Shore A, 30 sec, Compression Molded)	30		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (300% Strain)	0.900	MPa	ISO 37
Tensile Stress ³ (Yield)	28.0	MPa	ISO 37
Tensile Elongation ⁴ (Break)	1300	%	ISO 37
NOTE			

1.	Measured on a 25% mass solution in toluene at 25°C using a Brookfield viscometer, LTF or LTV model
2.	Measured on films cast from a solution in toluene
3.	Measured on films cast from a solution in toluene
4.	Measured on films cast from a solution in toluene

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