

KRATON® D1161 B

Styrene Isoprene Styrene Block Copolymer

Kraton Polymers LLC

Message:

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

Kraton D1161 BT - supplied as a porous pellet dusted with talc

Kraton D1161 BSM - supplied as a powder dusted with silica

Kraton D1161 B 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)	8.5 to 19	g/10 min	ISO 1133
Solution Viscosity ¹	1100	mPa · s	Internal Method
Antioxidant Additive	0.080 to 0.21	%	Internal Method
Ash Content			ISO 247
BSM	2.5 to 5.0	%	
BT	< 0.50	%	
Molecular Weight	207000 to 237000	g/mol	Internal Method
Polystyrene Content	14 to 17	%	Internal Method
Total Extractables	< 1.0	%	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

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| 1. | Measured on 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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