

Kraton® D2109 DS-N (SBS) Compound

Category : Polymer , Thermoplastic , Styrene-Butadiene , Styrene/Butadiene/Styrene (SBS)

Material Notes:

Description: Kraton D2109 DS-N is an easy processing, general purpose 45 Shore A hardness material designed for a wide variety of applications. It is supplied from North America in the physical form identified: Kraton D2109 DS-N - supplied as a translucent dense pellet
Region: North America, Europe, Asia Pacific, Japan, and South America
Applications: Adhesives, Sealant and Coatings; Bitumen Modification; Compounding and Personal Hygiene; Footwear; and Impact Modification
Information provided by Kraton®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kraton-D2109-DS-N-SBS-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.915 - 0.945 g/cc	0.915 - 0.945 g/cc	BAM 1014
Linear Mold Shrinkage, Flow	0.025 - 0.027 cm/cm	0.025 - 0.027 in/in	
Melt Flow	15 - 30 g/10 min @Load 5.00 kg, Temperature 200 °C	15 - 30 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40 - 50	40 - 50	Value of product compression molded 120°C; BAM 1003
Tensile Strength	3.45 MPa	500 psi	Machine Direction, typical properties Injection molded plaques, Die C; ASTM D412
	4.83 MPa	701 psi	Transverse Direction, typical properties Injection molded plaques, Die C; ASTM D412
Elongation at Break	550 %	550 %	Machine Direction, typical properties Injection molded plaques, Die C; ASTM D412
	800 %	800 %	Transverse Direction, typical properties Injection molded plaques, Die C; ASTM D412
100% Modulus	0.00103 GPa	0.149 ksi	Transverse Direction, typical properties Injection molded plaques, Die C; ASTM D412
	0.00138 GPa	0.200 ksi	Machine Direction, typical properties Injection molded plaques, Die C; ASTM D412
300% Modulus	0.00172 GPa	0.249 ksi	Transverse Direction, typical properties Injection molded plaques, Die C; ASTM D412
	0.00207 GPa	0.300 ksi	Machine Direction, typical properties Injection molded plaques, Die C;

Mechanical Properties	Metric	English	ASTM D412 Comments
Tear Strength	21.9 kN/m	125 pli	Transverse Direction, typical properties Injection molded plaques, Die C; ASTM D412
	26.3 kN/m	150 pli	Machine Direction, typical properties Injection molded plaques, Die C; ASTM D412

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	171 - 182 Â°C	340 - 360 Â°F	
Middle Barrel Temperature	177 - 193 Â°C	350 - 380 Â°F	
Front Barrel Temperature	188 - 199 Â°C	370 - 390 Â°F	
Mold Temperature	10.0 - 37.8 Â°C	50.0 - 100 Â°F	
Injection Pressure	3.549 - 4.928 MPa	514.7 - 714.7 psi	
Back Pressure	0.276 - 0.414 MPa	40.0 - 60.0 psi	

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