

Kraton® G7705 GI-B (SEBS) Compound

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Description: Kraton G7705 GI-B is an easy processing, general purpose 44 Shore A hardness material designed for a wide variety of applications. It is supplied from North America in the physical form identified: Kraton G7705 GI-B- supplied as a dense, black pelletRegion: North America; Asia Pacific; Europe; Japan; and South AmericaApplications: Compounding and Personal Hygiene; Adhesives, Sealant and Coatings; Bitumen Modification; Footwear; and Impact ModificationInformation provided by Kraton®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kraton-G7705-GI-B-SEBS-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 - 1.25 g/cc	1.15 - 1.25 g/cc	BAM 1014

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	39 - 49	39 - 49	BAM 1003
Tensile Strength	4.14 MPa	600 psi	ASTM D412
	9.73 MPa	1410 psi	After Heat Aging 158 hrs at 150°C; ASTM D412
Elongation at Break	700 %	700 %	ASTM D412
	825 %	825 %	After Heat Aging 158 hrs at 150°C; ASTM D573
300% Modulus	0.00207 GPa	0.300 ksi	ASTM D412
Tear Strength	17.5 kN/m	100 pli	ASTM D624
Compression Set	15 %	15 %	
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	ASTM D395B
	38 %	38 %	
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	ASTM D395B

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-63.0 °C	-81.4 °F	ASTM D746
Flame Spread	50.8 mm/min	2.00 in/min	FVSS302/SAE J369 in/min

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	193 - 204 Â°C	380 - 400 Â°F	
Front Barrel Temperature	204 - 216 Â°C	400 - 420 Â°F	
Nozzle Temperature	420 - 450 Â°C	788 - 842 Â°F	
Mold Temperature	26.7 - 65.6 Â°C	80.0 - 150 Â°F	
Injection Pressure	3.45 - 4.83 MPa	500 - 700 psi	
Back Pressure	0.689 - 1.38 MPa	100 - 200 psi	

Descriptive Properties	Value	Comments
Ozone Resistance	No cracking	100 pphm, 72 hr, 38Â°C, ASTM D518/1149

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