



KRATON® D2109 DS-N

Kraton Polymers LLC - Styrene Butadiene Styrene Block Copolymer

Friday, December 18, 2015

General Information

Product 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 below.

- Kraton D2109 DS-N - supplied as a translucent dense pellet

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose	• Good Processability	• Recyclable Material
Uses	• General Purpose		
Appearance	• Translucent		
Forms	• Pellets		
Processing Method	• Blow Molding • Coating	• Compression Molding • Extrusion	• Injection Molding

ASTM & ISO Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	0.917 to 0.947	0.917 to 0.947	Internal Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	15 to 30 g/10 min	15 to 30 g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.025 to 0.027 in/in	2.5 to 2.7 %	ASTM D955
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress ²			ASTM D412
Across Flow : 100% Strain	150 psi	1.03 MPa	
Flow : 100% Strain	150 psi	1.03 MPa	
Across Flow : 300% Strain	300 psi	2.07 MPa	
Flow : 300% Strain	300 psi	2.07 MPa	
Tensile Strength ²			ASTM D412
Across Flow : Yield	700 psi	4.83 MPa	
Flow : Yield	700 psi	4.83 MPa	
Tensile Elongation ²			ASTM D412
Across Flow : Break	550 %	550 %	
Flow : Break	550 %	550 %	
Tear Strength ²			ASTM D624
Across Flow	125 lbf/in	21.9 kN/m	
Flow	125 lbf/in	21.9 kN/m	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			Internal Method
Shore A, 248°F (120°C), Compression Molded	40 to 50	40 to 50	

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Processing Information		
Injection	Typical Value (English)	Typical Value (SI)
Rear Temperature	340 to 360 °F	171 to 182 °C
Front Temperature	370 to 390 °F	188 to 199 °C
Nozzle Temperature	350 to 380 °F	177 to 193 °C
Mold Temperature	50.0 to 100 °F	10.0 to 37.8 °C
Injection Pressure	500 to 700 psi	3.45 to 4.83 MPa
Injection Rate	Moderate-Fast	Moderate-Fast
Back Pressure	40.0 to 60.0 psi	0.276 to 0.414 MPa

Notes

¹ Typical properties: these are not to be construed as specifications.

² Die C