

KRATON® D2109 DS-N

Styrene Butadiene Styrene Block Copolymer

Kraton Polymers LLC

Message:

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 Information			
Features	General Purpose		
	Good Processability		
	Recyclable Material		
Uses	General Purpose		
Appearance	Translucent		
Forms	Pellets		
Processing Method	Blow Molding		
	Coating		
	Compression Molding		
	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.915 to 0.945	g/cm ³	Internal Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	15 to 30	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.5 to 2.7	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 120°C, Compression Molded)	40 to 50		Internal Method
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ASTM D412
Across Flow : 100% Strain	1.03	MPa	
Flow : 100% Strain	1.03	MPa	
Across Flow : 300% Strain	2.07	MPa	
Flow : 300% Strain	2.07	MPa	
Tensile Strength ²			ASTM D412
Across Flow : Yield	4.83	MPa	
Flow : Yield	4.83	MPa	
Tensile Elongation ³			ASTM D412
Across Flow : Break	550	%	
Flow : Break	550	%	

Tear Strength ⁴		ASTM D624
Across Flow	21.9	kN/m
Flow	21.9	kN/m
Injection	Nominal Value	Unit
Rear Temperature	171 to 182	°C
Front Temperature	188 to 199	°C
Nozzle Temperature	177 to 193	°C
Mold Temperature	10.0 to 37.8	°C
Injection Pressure	3.45 to 4.83	MPa
Injection Rate	Moderate-Fast	
Back Pressure	0.276 to 0.414	MPa
NOTE		
1.	Die C	
2.	Die C	
3.	Die C	
4.	Die C	

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Recommended distributors for this material

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