Monprene® CP-12045 NAT XRD1 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

Monprene CP-12045 NAT XRD1, available in NAT and colors, is a high performance thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene CP-12045 NAT XRD1 is a medium density, low hardness, RoHS compliant grade suitable for injection molding.

General			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Good Colorability • Good Flexibility • Good Moldability	• Good Toughness • Halogen Free • High Flow • Low Hardness	• Lubricated • Medium Density • Resilient • Slip
Uses	• Consumer Applications • Handles	• Knobs • Overmolding	• Rubber Replacement • Soft Touch Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.14		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Break)	580	psi	ASTM D412
Tensile Elongation [2] (Break)	400	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	45		
Shore A, 5 sec, Injection Molded	43		

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	300 to 320	°F
Middle Temperature	320 to 350	°F
Front Temperature	350 to 380	°F
Nozzle Temperature	330 to 390	°F
Processing (Melt) Temp	350 to 390	°F
Mold Temperature	60 to 100	°F

Revision Date: 7/31/2025

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Injection	Nominal Value	Unit
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 100	psi
Cushion	0.150 to 0.500	in

Injection Notes

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

Notes

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

[2] Die C, 20 in/min

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