Monprene® CP-12417 XRD1 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

Monprene CP-12417 XRD1, available in Natural or Colors, is a High Flow thermoplastic elastomer compound, designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene CP-12417 XRD1 is a low hardness, low density grade that is 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	• High Flow
Uses	• Consumer Applications	• Rubber Replacement	• Soft Touch Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Opaque	
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.862		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	66.7	psi	ASTM D412
Tensile Stress (300% Strain)	116	psi	ASTM D412
Tensile Strength (Break)	334	psi	ASTM D412
Tensile Elongation (Break)	680	%	ASTM D412
Tear Strength	66.2	lbf/in	ASTM D624
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec	19		
Shore A, 5 sec	17		

Legal Statement

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	302 to 338	°F
Middle Temperature	320 to 356	°F
Front Temperature	347 to 374	°F
Nozzle Temperature	320 to 392	°F
Processing (Melt) Temp	320 to 392	°F

Revision Date: 1/15/2026

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Injection	Nominal Value	Unit
Mold Temperature	59 to 104	°F
Injection Pressure	200 to 800	psi
Injection Rate	Fast	
Back Pressure	25.0 to 100	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	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.

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