Monprene® RG-17186 NAT XRD1 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Thursday, April 2, 2026

General Information

Product Description

Monprene RG-17186 XRD1 is a high performance thermoplastic elastomer, available in NAT and colors, designed for regulated applications including food contact. Monprene RG-17186 XRD1 is a high hardness, medium density, RoHS compliant grade with excellent adhesion to PP and complies with various US FDA regulations for food contact. This grade is suitable for injection molding. Please contact Teknor Apex for a regulatory compliance letter.

General			
Material Status	• Preliminary Data		
Availability	• Asia Pacific	• Europe	• North America
Features	• Chemical Resistant • Food Contact Acceptable • Good Adhesion • Good Colorability	• Good Flexibility • Good Moldability • Good Tear Strength • Good Toughness	• High Hardness • Medium Density
Uses	• Closures • Consumer Applications • Gaskets • Handles	• Kitchenware • Packaging • Rubber Replacement • Safety Equipment	• Toothbrush Handles • Tubing
Agency Ratings	• FDA Food Contact		
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Opaque
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.02		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	16	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength - Flow (Break)	1160	psi	ASTM D412
Tensile Elongation - Flow (Break)	500	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A	88		
Shore A, 5 sec	86		

Legal Statement

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	340 to 380	°F
Middle Temperature	350 to 400	°F
Front Temperature	360 to 446	°F

Revision Date: 9/12/2025

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Injection	Nominal Value	Unit
Nozzle Temperature	370 to 446	°F
Processing (Melt) Temp	370 to 420	°F
Mold Temperature	77 to 150	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 50.0	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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