Monprene® RG-19149D NAT XRD1 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Thursday, April 2, 2026

General Information

Product Description

Monprene RG-19149D NAT XRD1 is a high performance thermoplastic elastomer, available in NAT and colors, designed for regulated applications including food contact. Monprene RG-19149D NAT XRD1 is high hardness, low 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 • Low 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	• Translucent
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.892		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	15	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	2180	psi	ASTM D412
Tensile Elongation (Break)	500	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore D	51		
Shore D, 5 sec	49		

Legal Statement

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	340 to 380	°F
Middle Temperature	350 to 400	°F
Front Temperature	360 to 410	°F

Revision Date: 7/25/2025

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Injection	Nominal Value	Unit
Nozzle Temperature	370 to 446	°F
Processing (Melt) Temp	370 to 446	°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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