Monprene® RG-39040D NAT

Teknor Apex Company - Thermoplastic Elastomer

Thursday, April 2, 2026

General Information

Product Description

The Monprene RG-39000 series is a group of high performance thermoplastic elastomers specifically designed for extruded regulated applications including food contact, toys, and children's products. Monprene RG-39040D is a low density, high hardness grade that complies with various US FDA and European regulations and directives for food contact and toy safety. This grade is suitable for extrusion processing. Please contact Teknor Apex for a regulatory compliance letter.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Europe	• Latin America • North America	
Features	• BPA Free • Filled • Food Contact Acceptable • Good Adhesion	• Good Colorability • Good Processability • High Hardness • Low Flow	• Low Specific Gravity • Medium Density • No Animal Derived Components
Uses	• Consumer Applications • Cosmetic Packaging • Food Containers • Food Packaging	• Food Service Applications • Kitchenware • Lids • Non-specific Food Applications	• Rubber Replacement • Toys
Agency Ratings	• EU Food Contact	• FDA Food Contact	
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Opaque
Forms	• Pellets		
Processing Method	• Extrusion		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ISO 37
Across Flow : 100% Strain	1410	psi	
Flow : 100% Strain	870	psi	
Tensile Stress [2]			ISO 37
Across Flow : Break	2830	psi	
Flow : Break	2030	psi	
Tensile Elongation [2]			ISO 37
Across Flow : Break	730	%	
Flow : Break	350	%	
Compression Set [3] (158°F, 22 hr)	79	%	ISO 815
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness			ISO 868
Shore D, 1 sec, Injection Molded	43		
Shore D, 5 sec, Injection Molded	41		
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity (392°F, 206 sec^-1)	204	Pa·s	ASTM D3835

Revision Date: 7/11/2019

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Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	300 to 320	°F
Cylinder Zone 2 Temp.	320 to 400	°F
Cylinder Zone 3 Temp.	340 to 420	°F
Cylinder Zone 4 Temp.	360 to 440	°F
Cylinder Zone 5 Temp.	360 to 440	°F
Die Temperature	360 to 440	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

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

Notes

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

[2] Type 1, 20 in/min

[3] Type A

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