Monprene® RG-10160

Teknor Apex Company - Thermoplastic Elastomer

Thursday, April 2, 2026

General Information

Product Description

The Monprene RG-10100 series is a group of high performance thermoplastic elastomers specifically designed for regulated applications including food contact, toys, and children's products. Monprene RG-10160 is a low density, medium hardness grade that complies with various US FDA and European regulations and directives for food contact and toy safety and is suitable for injection molding and extrusion. 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 • Food Contact Acceptable • Good Adhesion • Good Colorability • Good Processability	• Low Density • Low Specific Gravity • Lubricated • Medium Flow • Medium Hardness	• No Animal Derived Components • Slip • Without Fillers
Uses	• Closures • Consumer Applications • Cosmetic Packaging • Food Containers	• Food Packaging • Food Service Applications • Handles • 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	• Translucent
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.892		ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	7.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress - Across Flow (100% Strain)	220	psi	ISO 37
Tensile Stress - Across Flow (Break)	1450	psi	ISO 37
Tensile Elongation - Across Flow (Break)	850	%	ISO 37
Tear Strength [2]			ISO 34-1
Across Flow	114	lbf/in	
Flow	160	lbf/in	
Compression Set [3] (158°F, 22 hr)	29	%	ISO 815
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A, 5 sec)	60		ISO 868
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity (392°F, 206 sec^-1)	230	Pa·s	ASTM D3835

Revision Date: 6/6/2022

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	320 to 350	°F
Middle Temperature	360 to 400	°F
Front Temperature	380 to 420	°F
Nozzle Temperature	360 to 440	°F
Processing (Melt) Temp	360 to 440	°F
Mold Temperature	80 to 120	°F
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 100	psi
Screw Speed	50 to 100	rpm
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).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	320 to 356	°F
Cylinder Zone 2 Temp.	350 to 400	°F
Cylinder Zone 3 Temp.	360 to 410	°F
Cylinder Zone 4 Temp.	360 to 410	°F
Cylinder Zone 5 Temp.	370 to 420	°F
Die Temperature	370 to 425	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes

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

[2] Method Ba, Angle (Unnicked)

[3] Type A

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