Monprene® RG-10190

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-10190 is a low density, high 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. Please contact Teknor Apex for a regulatory compliance letter.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• BPA Free • Chemical Resistant • Food Contact Acceptable • General Purpose • Good Adhesion	• Good Adhesion • Good Colorability • Good Flexibility • Good Processability • High Hardness	• Low Density • Low Specific Gravity • Lubricated • Slip • Without Fillers
Uses	• Appliances • Consumer Applications • Cosmetic Packaging • Flexible Grips • Food Containers	• Food Packaging • Food Service Applications • Handles • Household Goods • Kitchenware	• Personal Care • Rubber Replacement • Soft Touch Applications • Stationary Supplies • Toys
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Translucent	
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.890		ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	9.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress - Across Flow (100% Strain)	710	psi	ISO 37
Tensile Stress - Across Flow (Break)	2470	psi	ISO 37
Tensile Elongation - Across Flow (Break)	810	%	ISO 37
Tear Strength [2]			ISO 34-1
Across Flow	337	lbf/in	
Flow	354	lbf/in	
Compression Set [3] (158°F, 22 hr)	47	%	ISO 815
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A, 5 sec)	90		ISO 868
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Apparent Shear Viscosity - Capillary, @ 206/s (392°F)	268	Pa·s	ASTM D3835

Revision Date: 12/7/2021

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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).

Notes

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

[2] Method Ba, Angle (Unnicked)

[3] Type B

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