+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
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TEKNOR APEX

Monprene® RG-10130

Teknor Apex Company - Thermoplastic Elastomer

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-10130 is a low density, low 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 • Europe	• Latin America • North America	
Features	• BPA Free • Food Contact Acceptable • Good Adhesion • Good Colorability • Good Processability	• Low Density • Low Flow • Low Hardness • Low Specific Gravity • Lubricated	• No Animal Derived Components • Slip • Without Fillers
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	• Translucent
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO 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)	1.5	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress - Across Flow (100% Strain)	69.6	psi	ISO 37
Tensile Stress - Across Flow (Break)	609	psi	ISO 37
Tensile Elongation - Across Flow (Break)	860	%	ISO 37
Tear Strength [2]			ISO 34-1
Across Flow	35.4	lbf/in	
Flow	69.1	lbf/in	
Compression Set [3] (158°F, 22 hr)	20	%	ISO 815
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A, 5 sec)	29		ISO 868
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity (392°F, 206 sec^-1)	204	Pa·s	ASTM D3835

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Processing Information		
Injection	**Nominal Value**	**Unit**
Rear Temperature	320 to 350	°F
Middle Temperature	360 to 400	°F
Front Temperature	360 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 A