

Monprene® RG-10130 (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene RG-10130 is specifically designed for regulated applications including food contact, toys, and children's products. This grade is suitable for injection molding. Monprene RG-10130 complies with various US FDA and European regulations and directives for food contact and toy safety. Please contact Teknor Apex for a regulatory compliance letter.

General Information	
Features	Low Specific Gravity
	Without Fillers
	Low density
	smoothness
	Workability, good
	Good coloring
	Good adhesion
	Low liquidity
	Lubrication
	Compliance of Food Exposure
	BPA-free
	No kinetic components
	Hardness, low
Uses	Cosmetic Packaging
	Kitchen utensils
	Non-specific food applications
	Cover
	Food packaging
	Food service sector
	Food container
	Toys
	Rubber substitution
Agency Ratings	FDA Food Exposure, Not Rated
	European food contact, not rated
RoHS Compliance	RoHS compliance
Appearance	Translucent
Forms	Particle
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.888	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	29		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain)	0.480	MPa	ISO 37
Tensile Stress - Across Flow (Break)	4.20	MPa	ISO 37
Tensile Elongation - Across Flow (Break)	860	%	ISO 37
Tear Strength ¹			ISO 34-1
Transverse flow	6.2	kN/m	ISO 34-1
Flow	12	kN/m	ISO 34-1
Compression Set ² (70°C, 22 hr)	20	%	ISO 815
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec ⁻¹)	204	Pa · s	ASTM D3835

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.

Injection	Nominal Value	Unit
Rear Temperature	160 - 177	°C
Middle Temperature	182 - 204	°C
Front Temperature	182 - 216	°C
Nozzle Temperature	182 - 227	°C
Processing (Melt) Temp	182 - 227	°C
Mold Temperature	27 - 49	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.172 - 0.689	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 12.7	mm

Injection instructions

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

NOTE

1. Method B, right-angle specimen (without cut)
2. Type a

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