Monprene® RG-10170 X (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene RG-10170 is specifically designed for regulated applications including food contact, toys, and children's products. This grade is suitable for injection molding. Monprene RG-10170 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
	Low liquidity
	Lubrication
	Compliance of Food Exposure
	BPA-free
	No kinetic components
	Medium hardness
Uses	Cosmetic Packaging
	Kitchen utensils
	Non-specific food applications
	Cover
	Food packaging
	Food service sector
	Food container
	Toys
	Consumer goods application field
Agency Ratings	FDA Food Exposure, Not Rated
	European food contact, not rated
Appearance	Translucent
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.888	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	2.5	g/10 min	ASTM D1238

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	70		ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress - Across Flow (100% Strain)	2.12	MPa	ISO 37
Tensile Stress - Across Flow (Break)	12.9	MPa	ISO 37
Tensile Elongation - Across Flow (Break)	850	%	ISO 37
Tear Strength [1]			ISO 34-1
Transverse flow	27	kN/m	ISO 34-1
Flow	36	kN/m	ISO 34-1
Compression Set [2] (70°C, 22 hr)	33	%	ISO 815
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Apparent Viscosity (200°C, 206 sec^-1)	247	Pa·s	ASTM D3835

Legal statement

Injection	Nominal Value	Unit
Rear Temperature	160 - 177	°C
Middle Temperature	182 - 204	°C
Front Temperature	193 - 216	°C
Nozzle Temperature	182 - 227	°C
Processing (Melt) Temp	182 - 227	°C
Mold Temperature	26.7 - 48.9	°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

Recommended distributors for this material

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