Monprene® RG-10180 X (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

Monprene RG-10180 is specifically designed for regulated applications including food contact, toys, and children's products. This grade is suitable for injection molding. Monprene RG-10180 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 Medium liquidity				
	Lubrication				
	Compliance of Food Exposure				
	BPA-free				
	No kinetic components				
	High 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				
rigericy radings	European food contact, not rated				
	zaropean rood contact, not rated				
Appearance	Translucent				
Forms	Particle				
Processing Method	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)	6.5	g/10 min	ASTM D1238		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore A, 5 sec)	80		ISO 868		

Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain)	3.03	MPa	ISO 37
Tensile Stress - Across Flow (Break)	15.3	MPa	ISO 37
Tensile Elongation - Across Flow (Break)	830	%	ISO 37
Tear Strength ¹			ISO 34-1
Transverse flow	39	kN/m	ISO 34-1
Flow	47	kN/m	ISO 34-1
Compression Set ² (70°C, 22 hr)	37	%	ISO 815
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (200°C, 206 sec^-1)	269	Pa·s	ASTM D3835

Legal statement

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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	МРа		
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				

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Method B, right-angle specimen

(without cut)

Type a

Recommended distributors for this material

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1. 2.

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