

Monprene® RG-20170 (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

The Monprene RG-20100 series is a group of high performance thermoplastic elastomers specifically designed for extruded regulated applications including food contact, toys, and children's products. Monprene RG-20170 is a low density, medium hardness grade that complies with various US FDA and European regulations and directives for food contact and toy safety and is suitable for extrusion. 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
	Medium hardness
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
	Available colors

Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.890	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0	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 (Break)	11.4	MPa	ISO 37
Tensile Elongation (Break)	750	%	ISO 37
Legal statement			

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Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	149 - 160	°C
Cylinder Zone 2 Temp.	160 - 204	°C
Cylinder Zone 3 Temp.	171 - 216	°C
Cylinder Zone 4 Temp.	182 - 227	°C
Die Temperature	182 - 227	°C
Extrusion instructions		

Screw Speed: 30 to 100 rpm Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150F (65C).

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