

TEKNOR APEX

Monprene® RG-18270 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

The Monprene RG-18200 series is a group of unfilled high performance thermoplastic elastomers with high flow specifically designed for EU injection molded regulated applications including food contact, toys, and children's products. Monprene RG-18270 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 injection molding. Please contact Teknor Apex for a regulatory compliance letter.

Material Status	 Commercial: Active 		
Availability	 Africa & Middle East Europe	Latin AmericaNorth America	
Features	Food Contact AcceptableGood AdhesionGood Colorability	Good ProcessabilityLow DensityLow Specific Gravity	LubricatedMedium HardnessWithout Fillers
Uses	 Closures Consumer Applications Cosmetic Packaging Food Containers Food Packaging 	 Food Service Applications Gaskets Handles Kitchenware Lids 	 Non-specific Food Applications Rubber Replacement Toothbrush Handles 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				
Nominal Value	Unit	Test Method		
0.890	g/cm³	ISO 1183		
Nominal Value	Unit	Test Method		
400	psi	ISO 37		
518	psi	ISO 37		
1020	psi	ISO 37		
700	%	ISO 37		
		ISO 815		
35	%			
59	%			
Nominal Value	Unit	Test Method		
70		ASTM D2240		
Nominal Value	Unit	Test Method		
98.0	Pa∙s	ASTM D3835		
	Nominal Value 0.890 Nominal Value 400 518 1020 700 35 59 Nominal Value 70 Nominal Value	Nominal ValueUnit0.890g/cm³Nominal ValueUnit400psi518psi1020psi700%35%59%Nominal ValueUnit		



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Injection	Nominal Value Unit		
Rear Temperature	248 to 320 °F		
Middle Temperature	320 to 446 °F		
Front Temperature	356 to 446 °F		
Nozzle Temperature	356 to 446 °F		
Processing (Melt) Temp	356 to 446 °F		
Mold Temperature	59 to 122 °F		
Injection Rate	Fast		
Back Pressure	72.5 to 218 psi		
Screw Speed	50 to 100 rpm		
Cushion	0.118 to 0.787 in		
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Injection Notes

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

Notes

¹ Typical properties: these are not to be construed as specifications.