+135-3858-6433 (GuangDong) +188-1699-6168 (ShangHai) +852-6957-5415 (HongKong)



Monprene® RG-18277

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Monprene RG-18277 is a high performance thermoplastic elastomer, available in NAT and colors, designed for regulated applications including food contact, toys, and children's products. Monprene RG-18277 is a high hardness, low density grade with excellent adhesion to PP and complies with various US FDA regulations and EU directives for food contact. This grade is suitable for injection molding. Please contact Teknor Apex for a regulatory compliance letter.

General			
Material Status	Commercial: Active		
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	North America
Features	Good AdhesionGood ColorabilityGood FlexibilityGood Flow	Good ProcessabilityGood Tensile StrengthGood ToughnessHalogen Free	 High Hardness Low Density Low Specific Gravity Without Fillers
Uses	ClosuresConsumer ApplicationsGasketsHandles	KitchenwarePackagingSafety EquipmentSporting Goods	 Toothbrush Handles Tubing Writing Instruments
RoHS Compliance	 RoHS Compliant 		
Appearance	Translucent		
Forms	• Pellets		
Processing Method	Injection Molding		

ASTM & ISO Properties ¹					
Physical	Nominal Value	Unit	Test Method		
Density / Specific Gravity	0.892		ASTM D792		
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	10	g/10 min	ASTM D1238		
Elastomers	Nominal Value	Unit	Test Method		
Tensile Stress ² (100% Strain)	500	psi	ASTM D412		
Tensile Stress ² (300% Strain)	670	psi	ASTM D412		
Tensile Strength ² (Break)	2260	psi	ASTM D412		
Tensile Elongation ² (Break)	750	%	ASTM D412		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness			ASTM D2240		
Shore A, 1 sec	79				
Shore A, 5 sec	77				

	Processing Information
Injection	Nominal Value Unit
Rear Temperature	248 to 320 °F

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Injection	Nominal Value Unit	
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	

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.

² 20 in/min