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

TEKNOR APEX

Monprene® RG-17182 XRD2 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Monprene RG-17182 XRD2 is a high performance thermoplastic elastomer, available in NAT and colors, designed for regulated applications including food contact. Monprene RG-17182 XRD2 is a high hardness, medium density, RoHS compliant grade with excellent adhesion to PP and complies with various US FDA regulations 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	• Asia Pacific	• Europe	• North America
Features	• Chemical Resistant • Food Contact Acceptable • Good Adhesion • Good Colorability	• Good Flexibility • Good Moldability • Good Tear Strength • Good Toughness	• High Hardness • Medium Density
Uses	• Closures • Consumer Applications • Gaskets • Handles	• Kitchenware • Packaging • Rubber Replacement • Safety Equipment	• Toothbrush Handles • Tubing
Agency Ratings	• FDA Food Contact		
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Opaque
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.982		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	630	psi	ASTM D412
Tensile Stress - Flow (300% Strain)	820	psi	ASTM D412
Tensile Strength - Flow (Break)	1400	psi	ASTM D412
Tensile Elongation - Flow (Break)	650	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A	85		
Shore A, 5 sec	83		

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	340 to 380	°F

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

Monprene® RG-17182 XRD2 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Injection	Nominal Value	Unit
Middle Temperature	350 to 400	°F
Front Temperature	360 to 410	°F
Nozzle Temperature	370 to 420	°F
Processing (Melt) Temp	370 to 420	°F
Mold Temperature	77 to 150	°F
Injection Pressure	200 to 1000	psi
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 50.0	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in

Injection Notes

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

Notes

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