Monprene® RG-20190 XRD1 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Thursday, April 2, 2026

General Information

Product Description

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-20190 XRD1 is a low density, high 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			
Material Status	• Preliminary Data		
Availability	• Africa & Middle East • Europe	• Latin America • North America	
Features	• BPA Free • Food Contact Acceptable • Good Adhesion • Good Colorability • Good Processability	• High Hardness • Low Density • Low Flow • Low Specific Gravity • Lubricated	• No Animal Derived Components • Slip • Without Fillers
Uses	• Consumer Applications • Cosmetic Packaging • Food Containers • Food Packaging	• Food Service Applications • Kitchenware • Lids • Non-specific Food Applications	• Rubber Replacement • Toys
Agency Ratings	• EU Food Contact	• FDA Food Contact	
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Translucent	
Forms	• Pellets		
Processing Method	• Extrusion		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.884	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.5	g/10 min	ISO 1133
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ISO 37
Across Flow : 100% Strain	806	psi	
Flow : 100% Strain	1280	psi	
Tensile Stress [2]			ISO 37
Across Flow : Break	2380	psi	
Flow : Break	1630	psi	
Tensile Elongation [2]			ISO 37
Across Flow : Break	720	%	
Flow : Break	420	%	
Compression Set [3]			ISO 815
73°F, 22 hr	36	%	
158°F, 22 hr	56	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore A, 5 sec)	91		ISO 868

Revision Date: 6/10/2024

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Processing Information

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	300 to 320	°F
Cylinder Zone 2 Temp.	320 to 400	°F
Cylinder Zone 3 Temp.	340 to 420	°F
Cylinder Zone 4 Temp.	360 to 440	°F
Cylinder Zone 5 Temp.	360 to 441	°F
Die Temperature	360 to 440	°F

Extrusion Notes

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).

Notes

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

[2] Type 1, 20 in/min

[3] Type A

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