Monprene® RG-19255

Teknor Apex Company - Thermoplastic Elastomer

Thursday, April 2, 2026

General Information

Product Description

Monprene RG-19255 is a high performance thermoplastic elastomer specifically designed for regulated applications including specific food contact products. Monprene RG-19255 is a medium hardness, low density grade with high flow suitable for injection molding. Monprene RG-19255 complies with various US FDA regulations and directives for food contact. Please contact Teknor Apex for a regulatory compliance letter.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Food Contact Acceptable • Good Processability • High Flow	• Low Density • Low Specific Gravity • Lubricated	• Medium Hardness • Slip • Without Fillers
Uses	• Closures • Consumer Applications • Kitchenware	• Packaging • Rubber Replacement • Seals	• Toothbrush Handles
Agency Ratings	• FDA Food Contact		
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Translucent
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.879		ASTM D792
Melt Mass-Flow Rate (MFR) (175°C/2.16 kg)	62	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ASTM D412
Across Flow : 100% Strain	249	psi	
Flow : 100% Strain	270	psi	
Tensile Stress [2]			ASTM D412
Across Flow : 300% Strain	285	psi	
Flow : 300% Strain	375	psi	
Tensile Strength [2]			ASTM D412
Across Flow : Break	325	psi	
Flow : Break	377	psi	
Tensile Elongation [2]			ASTM D412
Across Flow : Break	310	%	
Flow : Break	320	%	
Tear Strength [2]			ASTM D624
Across Flow	91.0	lbf/in	
Flow	102	lbf/in	
Compression Set [3]			ASTM D395B
73°F, 22 hr	36	%	
158°F, 22 hr	92	%	

Revision Date: 7/10/2019

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Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A	58		
Shore A, 5 sec	56		

Legal Statement

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	320 to 360	°F
Middle Temperature	320 to 360	°F
Front Temperature	320 to 360	°F
Nozzle Temperature	320 to 360	°F
Processing (Melt) Temp	320 to 360	°F
Mold Temperature	60 to 90	°F
Injection Pressure	200 to 800	psi
Injection Rate	Fast	
Back Pressure	25.0 to 100	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.

[2] Die C, 20 in/min

[3] Type 1

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