Monprene® RG-18108 NAT (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Thursday, April 2, 2026

General Information

Product Description

Monprene RG-18108 is a high performance thermoplastic elastomer, available in NAT and colors, intended for use in food contact applications. Monprene RG-18108 is a very soft, low density grade with good 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	• Preliminary Data		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Bondability • Chemical Resistant • Good Adhesion • Good Colorability	• Good Moldability • Good Processability • Halogen Free • High Elasticity	• Low Density • Low Hardness • Low Specific Gravity • Lubricated
Uses	• Flexible Grips • Non-specific Food Applications	• Overmolding • Rubber Replacement	• Seals • Soft Touch Applications
Agency Ratings	• EU Food Contact	• FDA	
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.872		ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/2.16 kg)	1.5	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	160	psi	ASTM D412
Tensile Elongation [2] (Break)	800	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	11		
Shore A, 5 sec, Injection Molded	8		

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	300 to 340	°F
Middle Temperature	340 to 380	°F
Front Temperature	380 to 440	°F
Nozzle Temperature	380 to 440	°F
Processing (Melt) Temp	380 to 440	°F

Revision Date: 11/14/2017

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Injection	Nominal Value	Unit
Mold Temperature	70 to 125	°F
Injection Pressure	50.0 to 150	psi
Back Pressure	50.0 to 100	psi
Screw Speed	50 to 100	rpm
Cushion	0.140 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

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