Monprene® MP-1900-1000 NAT (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

Monprene MP-1900-1000 is a general purpose thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene MP-1900-1000 is a low hardness grade suitable for injection molding and extrusion.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Flow • Low Density	• Low Hardness • Low Specific Gravity	• Without Fillers
Uses	• Consumer Applications • Gaskets	• Handles • Safety Equipment	• Writing Instruments
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.862		ASTM D792
Melt Mass-Flow Rate (MFR) (125°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2] (100% Strain)	14.5	psi	ASTM D412
Tensile Strength [2] (Break)	145	psi	ASTM D412
Tensile Elongation [2] (Break)	> 600	%	ASTM D412
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	7		
Shore OO, 1 sec, Injection Molded	50		
Shore OO, 5 sec, Injection Molded	48		

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	300 to 360	°F
Middle Temperature	300 to 410	°F
Front Temperature	300 to 446	°F
Nozzle Temperature	300 to 446	°F
Processing (Melt) Temp	338 to 446	°F
Mold Temperature	60 to 90	°F

Revision Date: 11/29/2023

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Injection	Nominal Value	Unit
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).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	280 to 340	°F
Cylinder Zone 2 Temp.	280 to 340	°F
Cylinder Zone 3 Temp.	280 to 340	°F
Cylinder Zone 4 Temp.	280 to 340	°F
Cylinder Zone 5 Temp.	280 to 340	°F
Die Temperature	280 to 340	°F

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes

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

[2] 20 in/min

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