Monprene® SP-19220 (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

Friday, April 3, 2026

General Information

Product Description

Monprene SP-19220, available in NAT and colors, is a high performance thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene SP-19220 is a low density, low hardness, RoHS compliant grade suitable for injection molding.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Bondability • Good Clarity • Good Colorability • Good Flexibility • Good Mold Release • Good Moldability	• Good Processability • High Elasticity • High Flow • Low Density • Low Hardness • Low Specific Gravity	• Low Temperature Flexibility • Slip • Soft • Without Fillers
Uses	• Consumer Applications • Handles	• Rubber Replacement • Soft Touch Applications	• Toothbrush Handles • Writing Instruments
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	0.880		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ASTM D412
Across Flow : 100% Strain	60.0	psi	
Flow : 100% Strain	60.0	psi	
Tensile Stress [2]			ASTM D412
Across Flow : 300% Strain	110	psi	
Flow : 300% Strain	120	psi	
Tensile Strength [2]			ASTM D412
Across Flow : Break	800	psi	
Flow : Break	750	psi	
Tensile Elongation [2]			ASTM D412
Across Flow : Break	600	%	
Flow : Break	650	%	
Tear Strength [2]			ASTM D624
Across Flow	65.0	lbf/in	
Flow	65.0	lbf/in	
Compression Set [3] (73°F, 22 hr)	30	%	ASTM D395B
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	20		
Shore A, 5 sec, Injection Molded	16		

Revision Date: 9/11/2018

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Processing Information

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