Monprene® CP-18216 CLR

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

Monprene CP-18216 CLR is a clear thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene CP-18216 CLR is a low hardness. low specific gravity grade that exhibits high flow characteristics, suitable for injection molding.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Mold Release • Good Moldability • Good Processability • High Flow	• Low Density • Low Hardness • Low Specific Gravity • Lubricated	• Slip • Without Fillers
Uses	• Consumer Applications • Flexible Grips	• General Purpose • Handles	
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent		
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) (150°C/2.16 kg)	15	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [2]			ASTM D412
Across Flow : 100% Strain	58.0	psi	
Flow : 100% Strain	58.0	psi	
Tensile Stress [2]			ASTM D412
Across Flow : 300% Strain	111	psi	
Flow : 300% Strain	114	psi	
Tensile Strength [2]			ASTM D412
Across Flow : Break	725	psi	
Flow : Break	712	psi	
Tensile Elongation [2]			ASTM D412
Across Flow : Break	560	%	
Flow : Break	600	%	
Tear Strength [2]			ASTM D624
Across Flow	59.0	lbf/in	
Flow	60.0	lbf/in	
Compression Set [3] (73°F, 22 hr)	31	%	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: 1/9/2019

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	280 to 320	°F
Middle Temperature	280 to 320	°F
Front Temperature	280 to 320	°F
Nozzle Temperature	280 to 320	°F
Processing (Melt) Temp	280 to 320	°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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