Monprene® CP-18152 CLR

Teknor Apex Company - Thermoplastic Elastomer

Wednesday, April 1, 2026

General Information

Product Description

Monprene CP-18152 CLR is a high performance thermoplastic elastomer designed for a variety of industrial and consumer product applications requiring a soft, rubber-like feel. Monprene CP-18152 CLR is a low hardness, low density, RoHS compliant grade suitable for injection molding.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose • Good Adhesion • Good Colorability • Good Moldability • Good Tear Strength	• Good Tensile Strength • High Clarity • High Elongation • High Flow • High Toughness	• Low Density • Low Hardness • Low Specific Gravity • Slip • Without Fillers
Uses	• Consumer Applications • Flexible Grips	• General Purpose • Industrial Applications	• Rubber Replacement • Toys
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent	• Colors Available	
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.890		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ASTM D1238
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress - Flow [2] (100% Strain)	480	psi	ASTM D412
Tensile Stress - Flow [2] (300% Strain)	600	psi	ASTM D412
Tensile Strength - Flow [2] (Break)	2000	psi	ASTM D412
Tensile Elongation - Flow [2] (Break)	800	%	ASTM D412
Tear Strength - Flow [2]	235	lbf/in	ASTM D624
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness			ASTM D2240
Shore A, 1 sec	58		
Shore A, 5 sec	56		

Legal Statement

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	280 to 320	°F
Middle Temperature	340 to 380	°F

Revision Date: 2/1/2021

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Injection	Nominal Value	Unit
Front Temperature	380 to 410	°F
Nozzle Temperature	410 to 440	°F
Processing (Melt) Temp	380 to 440	°F
Mold Temperature	95 to 120	°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).

Extrusion Notes

Screw Speed: 30 to 100 rpm

Notes

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

[2] Die C, 20 in/min

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