



Monprene® CP-10140H (PRELIMINARY DATA)

Teknor Apex Company - Thermoplastic Elastomer

General Information

Product Description

Monprene CP-10140H, 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 CP-10140H is a low density, low hardness, halogen free grade that is suitable for injection molding.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant • Good Colorability • Good Flexibility • Good Moldability • Good Toughness	• Halogen Free • High Flow • Low Density • Low Hardness • Low Specific Gravity	• Resilient • Slip • Without Fillers
Uses	• Bladders • Bushings • Connectors • Consumer Applications • Flexible Grips	• Grommets • Handles • Knobs • Plugs • Prototyping	• Rubber Replacement • Safety Equipment • Seals
RoHS Compliance	• RoHS Compliant		
Appearance	• Colors Available	• Natural Color	• Translucent
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.885		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	12	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (50% Strain)	135	psi	ASTM D412
Tensile Stress ² (100% Strain)	175	psi	ASTM D412
Tensile Stress ² (300% Strain)	290	psi	ASTM D412
Tensile Strength ² (Break)	690	psi	ASTM D412
Tensile Elongation ² (Break)	710	%	ASTM D412
Tear Strength ²	108	lbf/in	ASTM D624
Compression Set ³			ASTM D395
73°F, 22 hr	19	%	
158°F, 22 hr	78	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	42		
Shore A, 5 sec, Injection Molded	40		

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Processing Information

Injection	Nominal Value	Unit
Rear Temperature	320 to 350	°F
Middle Temperature	360 to 400	°F
Front Temperature	380 to 420	°F
Nozzle Temperature	360 to 440	°F
Processing (Melt) Temp	360 to 440	°F
Mold Temperature	80 to 120	°F
Injection Rate	Moderate-Fast	
Back Pressure	25.0 to 100	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 0.500	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