

# Monprene® CP-10170 X (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

The Monprene CP-10100 Series of thermoplastic elastomer compounds are designed specifically for consumer product applications requiring a soft, rubber-like feel. These grades are available from 40 to 90 Shore A and are suitable for injection molding.

General Information			
Features	Low density		
	Good flexibility		
	Good coloring		
	General		
	High hardness		
Uses	Water Sports Equipment		
	Safety equipment		
	Handle		
	Electrical appliances		
	Personal care		
	Furniture		
	Household goods		
	Soft touch application		
	Soft handle		
	Sporting goods		
	Toys		
	Stationery		
	Stationery		
	Consumer goods application field		
	Knob		
	Toothbrush handle		
Appearance	Translucent		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.888	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	11	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	70		ISO 868
Elastomers	Nominal Value	Unit	Test Method

Tensile Stress - Across Flow (100% Strain)	2.21	MPa	ISO 37
Tensile Stress - Across Flow (Break)	12.4	MPa	ISO 37
Tensile Elongation - Across Flow (Break)	890	%	ISO 37
Tear Strength <sup>1</sup>			ISO 34-1
Transverse flow	29	kN/m	ISO 34-1
Flow	39	kN/m	ISO 34-1
Compression Set <sup>2</sup> (70°C, 22 hr)	37	%	ISO 815
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, @ 206/s (200°C)	240	Pa·s	ASTM D3835
Legal statement			

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Injection	Nominal Value	Unit
Rear Temperature	160 - 177	°C
Middle Temperature	182 - 204	°C
Front Temperature	193 - 216	°C
Nozzle Temperature	182 - 227	°C
Processing (Melt) Temp	182 - 227	°C
Mold Temperature	26.7 - 48.9	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.172 - 0.689	MPa
Screw Speed	50 - 100	rpm
Cushion	3.81 - 12.7	mm

#### Injection instructions

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150°F (65°C).

#### NOTE

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| 1. | Method B, right-angle specimen<br>(without cut) |
| 2. | Type a  |

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