# Monprene® CP-10160 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.

Features	General Information			
Good coloring General Hardness, low  Uses  Water Sports 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 Sporting Sporting Sporting Sporting Sporting Sporting Sporting Stationery Consumer goods application field Knob Toothorush handle Sporting Sp	Features	Low density		
Uses Water Sports Equipment Safety equipment Handle Electrical appliances Personal care Furniture Household goods Soft touch application Soft handle Sporting goods Toys Stationery Stationery Stationery Consumer goods application field Knob Toothbrush handle  Appearance Translucent Forms Particle Processing Method Injection molding Physical Nominal Value Unit Test Method Sol 183		Good flexibility		
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Forms Particle  Processing Method Injection molding  Physical Nominal Value Unit Test Method  Specific Gravity 0.888 g/cm³ ISO 1183		Toothbrush handle		
Forms Particle  Processing Method Injection molding  Physical Nominal Value Unit Test Method  Specific Gravity 0.888 g/cm³ ISO 1183				
Processing Method Injection molding  Physical Nominal Value Unit Test Method  Specific Gravity 0.888 g/cm³ ISO 1183	Appearance	Translucent		
PhysicalNominal ValueUnitTest MethodSpecific Gravity0.888g/cm³ISO 1183	Forms	Particle		
Specific Gravity 0.888 g/cm³ ISO 1183	Processing Method	Injection molding		
<u> </u>	Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)         4.0         g/10 min         ASTM D1238	Specific Gravity	0.888	g/cm³	ISO 1183
	Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	g/10 min	ASTM D1238
Hardness Nominal Value Unit Test Method	Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec) 60 ISO 868	Durometer Hardness (Shore A, 5 sec)	60		ISO 868
Elastomers Nominal Value Unit Test Method	Elastomers	Nominal Value	Unit	Test Method

Tensile Stress - Across Flow (100% Strain)	1.65	MPa	ISO 37
Tensile Stress - Across Flow (Break)	10.4	MPa	ISO 37
Tensile Elongation - Across Flow (Break)	880	%	ISO 37
Tear Strength <sup>1</sup>			ISO 34-1
Transverse flow	22	kN/m	ISO 34-1
Flow	32	kN/m	ISO 34-1
Compression Set <sup>2</sup> (70°C, 22 hr)	35	%	ISO 815
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, @			
206/s (200°C)	233	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	
1.	Method B, right-angle specimen (without cut)
2.	Type a

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