

Monprene® CP-11170 (PRELIMINARY DATA)

Thermoplastic Elastomer

Teknor Apex Company

Message:

The Monprene CP-11100 High Density Series of thermoplastic elastomer compounds, available in NAT or colors, from 40 to 90 Shore A, are designed specifically for consumer product applications requiring a soft, rubber-like feel. Monprene CP-11170 is a medium hardness, high density, filled grade that is suitable for injection molding.

General Information	
Features	High specific gravity High density Workability, good Good flexibility Good coloring Good adhesion Good chemical resistance Fill General Medium 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
RoHS Compliance	RoHS compliance
Appearance	Opacity Available colors

Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ISO 1183
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)	2.00	MPa	ISO 37
Tensile Stress - Across Flow (Break)	10.9	MPa	ISO 37
Tensile Elongation - Across Flow (Break)	840	%	ISO 37
Tear Strength ¹			ISO 34-1
Transverse flow	31	kN/m	ISO 34-1
Flow	31	kN/m	ISO 34-1
Compression Set ² (70°C, 22 hr)	38	%	ISO 815
Additional Information	Nominal Value	Unit	Test Method
Apparent Shear Viscosity - Capillary, @ 206/s (200°C)	194	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	27 - 49	°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

- Method B, right-angle specimen (without cut)
- Type a

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