

TECHNICAL DATA SHEET

Monprene® CP-11170

Teknor Apex Co.

TPE-X

Processing

Injection molding

Delivery Form

Pellets

Special Characteristics

Opaque

Features

Good adhesion, Soft feel

Chemical Resistance

General chemical resistance

Applications

General purpose, Sports equipment

Product Text

Product Information

Preliminary Data

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.

Adheres to PP

Property	Value	Unit	Standard
Tensile Stress at 100% (across flow)	2.0	MPa	ISO 37
Tensile Stress at Break (across flow)	10.9	MPa	ISO 37
Tensile Strain at Break (across flow)	840	%	ISO 37
Tear Strength (across flow)	31	kN/m	ISO 34-1
Apparent Shear Viscosity (200 °C)	194	Pas	ASTM D3835

Mechanical Properties	Value	Unit	Standard
Compression set at 70 °C, 24h	38	%	ISO 815
Tear strength, parallel	31	kN/m	ISO 34-1
Shore A hardness, 15s	70		ISO 7619-1

Other Properties	Value	Unit	Standard
Density	1150	kg/m ³	ASTM D 792

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Processing Recommendation Injection Molding	Value	Unit	Standard
Pre-drying - temperature	65	°C	
Pre-drying - time	2 - 4	h	
Melt temperature	182 - 227	°C	
Mold temperature	27 - 49	°C	
Zone 1	160 - 177	°C	
Zone 2	182 - 204	°C	
Zone 3	193 - 216	°C	
Nozzle temperature	182 - 227	°C	
Screw speed	50 - 100	rpm	
Back pressure	0.172 - 0.689	MPa	