

Product Texts

Preliminary Data

The Monprene CP-10100 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-10170 is a medium hardness, low density, unfilled grade that is suitable for injection molding.

Adheres to PP

Property	Value	Unit	Standard
Tensile Stress at 100% (across flow)	2.21	MPa	ISO 37
Tensile Stress at Break (across flow)	12.4	MPa	ISO 37
Tensile Strain at Break (across flow)	890	%	ISO 37
Tear Strength (across flow)	29	kN/m	ISO 34-1
Apparent Shear Viscosity (200 °C)	240	Pas	ASTM D3835

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	11	g/10min	ASTM D 1238
Temperature	200	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Compression set at 23 °C, 24h	21	%	ISO 815
Compression set at 70 °C, 24h	37	%	ISO 815
Tear strength	39	kN/m	ISO 34-1
Shore A hardness	70	-	ISO 7619-1

Other properties	Value	Unit	Test Standard
Density	888	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test 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	-

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Chemical Resistance

General Chemical Resistance

Applications

General Purpose

Monprene® CP-10170

TPE

Teknor Apex Co.

Special Characteristics

Translucent

Features

Good Adhesion, Soft Feel

Regional Availability

North America, Europe, Asia Pacific, South and Central America,
Near East/Africa