

Monprene® CP-10160

TPE

Teknor Apex Co.

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-10160 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)	1.65	MPa	ISO 37
Tensile Stress at Break (across flow)	10.4	MPa	ISO 37
Tensile Strain at Break (across flow)	880	%	ISO 37
Tear Strength (across flow)	22	kN/m	ISO 34-1
Apparent Shear Viscosity (200 °C)	233	Pas	ASTM D3835

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	4	g/10min	ASTM D 1238
Temperature	200	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Compression set at 70 °C, 24h	35	%	ISO 815
Tear strength	32	kN/m	ISO 34-1
Shore A hardness	60	-	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

Special Characteristics

Translucent

Chemical Resistance

General Chemical Resistance

Applications

General Purpose, Sports Equipment

Regional Availability

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

Features

Good Adhesion, Soft Feel