TECHNICAL DATA SHEET

Monprene® CP-10140

Teknor Apex Co.

TPE

Processing

Injection molding

Delivery Form

Pellets

Special Characteristics

Translucent

Features

Good adhesion, Soft feel

Chemical Resistance

General chemical resistance

Applications

General purpose, Sports equipment

Product Text

Product Information

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-10140 is a low hardness, low density, unfilled grade that is suitable for injection molding.

Adheres to PP

Property	Value	Unit	Standard
Tensile Stress at 100% (across flow)	0.896	MPa	ISO 37
Tensile Stress at Break (across flow)	6.62	MPa	ISO 37
Tensile Strain at Break (across flow)	920	%	ISO 37
Tear Strength (across flow)	13	kN/m	ISO 34-1
Apparent Shear Viscosity (200 °C)	209	Pas	ASTM D3835

Processing/Physical Characteristics	Value	Unit	Standard
Melt flow index, MFI	8	g/10min	ASTM D 1238
Temperature	200	°C	
Load	5	kg	

Mechanical Properties	Value	Unit	Standard
Compression set at 23 °C, 24h	16	%	

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Mechanical Properties	Value	Unit	Standard
Compression set at 70 °C, 24h	28	%	ISO 815
Tear strength, parallel	22	kN/m	ISO 34-1
Shore A hardness, 15s	40		ISO 7619-1

Other Properties	Value	Unit	Standard
Density	888	kg/m³	ASTM D 792

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	