

TECHNICAL DATA SHEET

Monprene® RG-20160

Teknor Apex Co.

TPE

Processing

Other extrusion

Delivery Form

Pellets

Additives

Lubricants

Special Characteristics

Translucent

Features

Good adhesion

Certifications

Food contact, Food approval FDA 21 CFR

Applications

Packaging

Product Text

Product Information

Preliminary Data

The Monprene RG-20100 series is a group of high performance thermoplastic elastomers specifically designed for extruded regulated applications including food contact, toys, and children's products. Monprene RG-20160 is a low density, medium hardness grade that complies with various US FDA and European regulations and directives for food contact and toy safety and is suitable for extrusion.

Adheres to PP

Property	Value	Unit	Standard
Tensile Stress at 100% (across flow)	1.8	MPa	ISO 37
Tensile Stress at Break (across flow)	9	MPa	ISO 37
Tensile Strain at Break (across flow)	800	%	ISO 37
Apparent Viscosity (200 °C, 206 1/s)	286	Pas	ASTM D3835

Processing/Physical Characteristics	Value	Unit	Standard
Melt flow index, MFI	1.5	g/10min	ASTM D 1238
Temperature	200	°C	
Load	5	kg	

Mechanical Properties	Value	Unit	Standard
Strain at break	150	%	ISO 37

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Mechanical Properties	Value	Unit	Standard
Stress at 100% elongation	4	MPa	
Compression set at 23 °C, 24h	16	%	
Compression set at 70 °C, 24h	28	%	ISO 815
Shore A hardness, 15s	60		ISO 7619-1

Other Properties	Value	Unit	Standard
Density	886	kg/m ³	ISO 1183

Processing Recommendation Extrusion	Value	Unit	Standard
Pre-drying - temperature	65	°C	
Pre-drying - time	2 - 4	h	
Zone 1	149 - 160	°C	
Zone 2	160 - 204	°C	
Zone 3	171 - 216	°C	
Zone 4	182 - 227	°C	
Nozzle temperature	182 - 227	°C	