

Product Texts

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-20180 is a low density, high 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)	2.8	MPa	ISO 37
Tensile Stress at Break (across flow)	12	MPa	ISO 37
Tensile Strain at Break (across flow)	780	%	ISO 37
Apparent Viscosity (200 °C, 206 1/s)	303	Pas	ASTM D3835

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Stress at 100% elongation	6	MPa	ISO 527
Strain at break	250	%	ISO 37
Compression set at 23 °C, 24h	23	%	ISO 815
Compression set at 70 °C, 24h	35	%	ISO 815
Shore A hardness	80	-	ISO 7619-1

Other properties	Value	Unit	Test Standard
Density	888	kg/m ³	ISO 1183

Processing Recommendation Extrusion	Value	Unit	Test 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	-

Characteristics

Processing
Other Extrusion

Features
Good Adhesion

Delivery form
Pellets

Certifications
Food contact, Food approval FDA 21 CFR

Additives
Lubricants

Applications
Packaging

Special Characteristics
Translucent

Regional Availability
North America, Europe, South and Central America, Near East/Africa