

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-20170 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)	2.88	MPa	ISO 37
Tensile Stress at 300% (across flow)	3.85	MPa	ISO 37
Tensile Stress at Break (across flow)	10.5	MPa	ISO 37
Tensile Strain at Break (across flow)	780	%	ISO 37
Tear Strength (across flow)	32	kN/m	ISO 34-1

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

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Stress at 100% elongation	4.96	MPa	ISO 527
Stress at 300% elongation	5.68	MPa	ISO 527
Strain at break	180	%	ISO 37
Compression set at 23 °C, 24h	27	%	ISO 815
Compression set at 70 °C, 24h	44	%	ISO 815
Tear strength	34	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 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