

Product Texts

Preliminary Data

The Monprene RG-18200 series is a group of unfilled high performance thermoplastic elastomers with high flow specifically designed for EU injection molded regulated applications including food contact, toys, and children's products. Monprene RG-18280 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 injection molding.

Adheres to PP

Property	Value	Unit	Standard
Apparent Viscosity (200 °C, 206 1/s)	103	Pas	ASTM D3835

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Compression set at 23 °C, 24h	41	%	ISO 815
Compression set at 70 °C, 24h	62	%	ISO 815
ASTM Data			
Modulus at 100% Elongation	3.85	MPa	ASTM D 412
Modulus at 300% Elongation	1.6	MPa	ASTM D 412
Shore A Hardness	80	-	ASTM D 2240
Tensile Strength at Break	6.87	MPa	ASTM D 412
Elongation at Break	550	%	ASTM D 412

Other properties	Value	Unit	Test Standard
Density	890	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	65	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	180 - 230	°C	-
Mold temperature	15 - 50	°C	-
Zone 1	120 - 160	°C	-
Zone 2	160 - 230	°C	-
Zone 3	180 - 230	°C	-
Nozzle temperature	180 - 230	°C	-
Screw speed	50 - 100	rpm	-
Back pressure	0.5 - 1.5	MPa	-

Characteristics

Processing
Injection Molding

Delivery form
Pellets

Additives
Lubricants

Special Characteristics
Translucent

Features
Good Adhesion

Certifications
Food contact, Food approval FDA 21 CFR

Applications
Packaging

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