

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-18270 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)	98	Pas	ASTM D3835

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Compression set at 23 °C, 24h	35	%	ISO 815
Compression set at 70 °C, 24h	59	%	ISO 815
ASTM Data			
Modulus at 100% Elongation	2.76	MPa	ASTM D 412
Modulus at 300% Elongation	1.19	MPa	ASTM D 412
Shore A Hardness	70	-	ASTM D 2240
Tensile Strength at Break	7.06	MPa	ASTM D 412
Elongation at Break	700	%	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