

TECHNICAL DATA SHEET

Monprene® RG-17270

Teknor Apex Co.

TPE-X

Processing

Injection molding

Delivery Form

Pellets

Additives

Lubricants

Special Characteristics

Opaque

Features

Good adhesion

Certifications

Food contact, Food approval FDA 21 CFR

Applications

Packaging

Product Text

Product Information

Preliminary Data

The Monprene RG-17200 series is a group of high performance thermoplastic elastomers specifically designed with medium density for regulated applications including food contact, toys, and children's products. Monprene RG-17270 is a medium density, medium hardness grade that complies with various 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)	110	Pas	ASTM D3835
Processing/Physical Characteristics		Value Unit	Standard
Melt flow index, MFI		12 g/10min	ASTM D 1238
Temperature		190 °C	
Load		2.16 kg	
Mechanical Properties		Value Unit	Standard
Modulus at 100% elongation		2.3 MPa	ASTM D 412
Modulus at 300% elongation		0.8 MPa	ASTM D 412
Shore A hardness		70	ASTM D 2240
Tensile strength at break		8.3 MPa	ASTM D 412

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Mechanical Properties	Value	Unit	Standard
Elongation at break	700	%	ASTM D 412
Compression set at 23 °C, 24h	34	%	
Compression set at 70 °C, 24h	55	%	ISO 815
Other Properties	Value	Unit	Standard
Density	1050	kg/m ³	ISO 1183
Processing Recommendation Injection Molding	Value	Unit	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	