

## TECHNICAL DATA SHEET

# Monprene® RG-20180

Teknor Apex Co.

TPE

**Processing**

Other extrusion

**Delivery Form**

Pellets

**Additives**

Lubricants

**Special Characteristics**

Translucent

**Features**

Good adhesion

**Certifications**

Food contact, Food approval FDA 21 CFR

**Applications**

Packaging

## Product Text

**Product Information**

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	Standard
Strain at break	250	%	ISO 37
Stress at 100% elongation	6	MPa	
Compression set at 23 °C, 24h	23	%	
Compression set at 70 °C, 24h	35	%	ISO 815
Shore A hardness, 15s	80		ISO 7619-1

# Monprene® RG-20180

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Other Properties	Value	Unit	Standard
Density	888	kg/m <sup>3</sup>	ISO 1183

  

Processing Recommendation Extrusion	Value	Unit	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	