

## TECHNICAL DATA SHEET

# Monprene® RG-20140

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-20140 is a low density, low 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)	0.8	MPa	ISO 37
Tensile Stress at Break (across flow)	6	MPa	ISO 37
Tensile Strain at Break (across flow)	800	%	ISO 37
Apparent Viscosity (200 °C, 206 1/s)	290	Pas	ASTM D3835

Processing/Physical Characteristics	Value	Unit	Standard
Melt flow index, MFI	0.5	g/10min	ASTM D 1238
Temperature	200	°C	
Load	5	kg	

Mechanical Properties	Value	Unit	Standard
Strain at break	140	%	ISO 37

# Monprene® RG-20140

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Mechanical Properties	Value	Unit	Standard
Stress at 100% elongation	2	MPa	
Compression set at 23 °C, 24h	11	%	
Compression set at 70 °C, 24h	21	%	ISO 815
Shore A hardness, 15s	40		ISO 7619-1

  

Other Properties	Value	Unit	Standard
Density	890	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	