

# Monprene® RG-20180 (PRELIMINARY DATA)

### Teknor Apex Company - Thermoplastic Elastomer

### **General Information**

#### **Product Description**

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. Please contact Teknor Apex for a regulatory compliance letter

Commercial: Active		
<ul> <li>Africa &amp; Middle East</li> </ul>	Latin America	
<ul> <li>Europe</li> </ul>	North America	
BPA Free	<ul> <li>High Hardness</li> </ul>	
<ul> <li>Food Contact Acceptable</li> </ul>	<ul> <li>Low Density</li> </ul>	<ul> <li>No Animal Derived Components</li> </ul>
<ul> <li>Good Adhesion</li> </ul>	<ul> <li>Low Flow</li> </ul>	• Slip
<ul> <li>Good Colorability</li> </ul>	<ul> <li>Low Specific Gravity</li> </ul>	<ul> <li>Without Fillers</li> </ul>
<ul> <li>Good Processability</li> </ul>	<ul> <li>Lubricated</li> </ul>	
<ul> <li>Consumer Applications</li> </ul>	<ul> <li>Food Service Applications</li> </ul>	
<ul> <li>Cosmetic Packaging</li> </ul>	<ul> <li>Kitchenware</li> </ul>	<ul> <li>Rubber Replacement</li> </ul>
<ul> <li>Food Containers</li> </ul>	• Lids	• Toys
<ul> <li>Food Packaging</li> </ul>	Non-specific Food Applications	
EU Food Contact	FDA Food Contact	
<ul> <li>RoHS Compliant</li> </ul>		
<ul> <li>Colors Available</li> </ul>	Natural Color	Translucent
• Pellets		
Extrusion		
	Africa & Middle East Europe  BPA Free Food Contact Acceptable Good Adhesion Good Colorability Good Processability  Consumer Applications Cosmetic Packaging Food Containers Food Packaging EU Food Contact RoHS Compliant Colors Available Pellets	<ul> <li>Africa &amp; Middle East</li> <li>Europe</li> <li>North America</li> <li>BPA Free</li> <li>Food Contact Acceptable</li> <li>Good Adhesion</li> <li>Good Processability</li> <li>Consumer Applications</li> <li>Cosmetic Packaging</li> <li>Food Containers</li> <li>Food Packaging</li> <li>Food Packaging</li> <li>Food Packaging</li> <li>Food Contact</li> <li>RoHS Compliant</li> <li>Colors Available</li> <li>Natural Color</li> </ul>

Properties 1		
Nominal Value	Unit	Test Method
0.888	g/cm³	ISO 1183
3.0	g/10 min	ASTM D1238
Nominal Value	Unit	Test Method
		ISO 37
406	psi	
870	psi	
		ISO 37
1740	psi	
1020	psi	
		ISO 37
780	%	
250	%	
		ISO 815
23	%	
35	%	
Nominal Value	Unit	Test Method
80		ISO 868
Nominal Value	Unit	Test Method
303	Pa·s	ASTM D3835
	0.888 3.0 Nominal Value 406 870 1740 1020 780 250 23 35 Nominal Value 80 Nominal Value	Nominal Value Unit  0.888 g/cm³ 3.0 g/10 min  Nominal Value Unit  406 psi 870 psi 1740 psi 1020 psi 780 % 250 %  23 % 35 %  Nominal Value Unit 80  Nominal Value Unit 303 Pa·s

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Processing Information		
Extrusion	Nominal Value Unit	
Cylinder Zone 1 Temp.	300 to 320 °F	
Cylinder Zone 2 Temp.	320 to 400 °F	
Cylinder Zone 3 Temp.	340 to 420 °F	
Cylinder Zone 4 Temp.	360 to 440 °F	
Cylinder Zone 5 Temp.	360 to 441 °F	
Die Temperature	360 to 440 °F	
Extrusion Notes		

Screw Speed: 30 to 100 rpm

Drying is not necessary. However, if moisture is a problem, dry the pellets for 2 to 4 hours at 150F (65C).

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Type 1, 20 in/min

<sup>&</sup>lt;sup>3</sup> Type A