

# Monprene® CP-17270

### Teknor Apex Company - Thermoplastic Elastomer

Thursday, March 28, 2024

#### **General Information**

#### **Product Description**

The Monprene CP-17200 Filled, High Flow Series of thermoplastic elastomer compounds, with good UV resistance, available in NAT or colors, from 40 to 80 Shore A, are designed specifically for EU consumer product applications requiring a soft, rubber-like feel. Monprene CP-17270 is a medium hardness, medium density grade that is suitable for injection molding and extrusion.

General			
Material Status	Commercial: Active		
Availability	<ul><li>Africa &amp; Middle East</li><li>Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America
Features	<ul><li>Chemical Resistant</li><li>Filled</li><li>Good Adhesion</li><li>Good Colorability</li></ul>	<ul><li>Good Flew</li><li>Good Flow</li><li>Good Moldability</li><li>Lubricated</li></ul>	<ul><li> Medium Density</li><li> Medium Hardness</li><li> UV Resistant</li></ul>
Uses	<ul><li>Bushings</li><li>Consumer Applications</li><li>Flexible Grips</li><li>Gaskets</li></ul>	<ul><li> Grommets</li><li> Handles</li><li> Luggage</li><li> Overmolding</li></ul>	<ul><li>Plugs</li><li>Rubber Replacement</li><li>Soft Touch Applications</li></ul>
RoHS Compliance	RoHS Compliant		
Appearance	<ul> <li>Colors Available</li> </ul>	Opaque	
Forms	• Pellets		
Processing Method	• Extrusion	Injection Molding	

ASTM & ISO Properties 1					
Physical	Nominal Value	Unit	Test Method		
Density / Specific Gravity	1.04	g/cm³	ASTM D792		
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	30	g/10 min	ASTM D1238		
Elastomers	Nominal Value	Unit	Test Method		
Tensile Stress (100% Strain)	1.90	MPa	ASTM D412		
Tensile Stress (300% Strain)	2.60	MPa	ASTM D412		
Tensile Strength (Break)	7.60	MPa	ASTM D412		
Tensile Elongation (Break)	800	%	ASTM D412		
Compression Set			ASTM D395		
23°C, 22 hr	31	%			
70°C, 22 hr	55	%			
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness			ASTM D2240		
Shore A, 1 sec	72				
Shore A, 5 sec	70				
Fill Analysis	Nominal Value	Unit	Test Method		
Apparent Viscosity (200°C, 206 sec^-1)	107	Pa·s	ASTM D3835		

#### **Legal Statement**

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. All products are sold upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses and purchaser assumes all risks and liability for the results of use of the products, including use in accordance with seller's recommendations. Nothing in this bulletin constitutes permission or a recommendation to practice or use any invention covered by any patent owned by this company or others. There is no warranty of merchantability and there are no other warranties for the products described. For detailed Product Stewardship information, please contact us. Any product of Teknor Apex, including product names, shall not be used or tested in medical or food contact applications without the prior written acknowledgement of Teknor Apex as to the intended use. Please note that some products may not be available in one or more countries.

Revision Date: 2/23/202

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nal Value Unit 32 to 232 °C 88 to 238 °C 93 to 243 °C 99 to 249 °C 99 to 249 °C 35 to 49 °C 8 to 5.52 MPa
88 to 238 °C 93 to 243 °C 99 to 249 °C 99 to 249 °C 35 to 49 °C
93 to 243 °C 99 to 249 °C 99 to 249 °C 35 to 49 °C
99 to 249 °C 99 to 249 °C 35 to 49 °C
99 to 249 °C 35 to 49 °C
35 to 49 °C
8 to 5.52 MPa
Fast
to 0.689 MPa
50 to 100 rpm
1 to 25.4 mm
150°F (65°C).
nal Value Unit
82 to 232 °C
88 to 238 °C
93 to 243 °C
99 to 249 °C
99 to 249 °C
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Screw Speed: 30 to 100 rpm

#### Notes

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

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Revision Date: 2/23/2021