

# Monprene® CP-28143

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

## General Information

### Product Description

Monprene CP-28143 is a high performance thermoplastic elastomer designed for a variety of consumer product applications requiring a soft, rubber-like feel. Monprene CP-28143 is a medium hardness, low density grade that is available in Nat or Blk and although designed for extrusion is also suitable for injection molding.

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Low Density • Low Flow	• Low Specific Gravity • Lubricated	• Medium Hardness • Without Fillers
Uses	• Consumer Applications • Gaskets	• Handles • Tubing	• Writing Instruments
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Natural Color	• Unspecified Color
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.890		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	0.50	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1000	psi	ASTM D412
Tensile Elongation (Break)	700	%	ASTM D412
Compression Set			ASTM D395B
73°F, 22 hr	20	%	
158°F, 22 hr	60	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	45		
Shore A, 5 sec, Injection Molded	43		

### 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.

## Processing Information

Injection	Nominal Value	Unit
Rear Temperature	360 to 440	°F
Middle Temperature	360 to 440	°F
Front Temperature	360 to 440	°F
Nozzle Temperature	360 to 440	°F
Processing (Melt) Temp	360 to 440	°F
Mold Temperature	60 to 110	°F



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Injection	Nominal Value	Unit
Injection Pressure	200 to 800	psi
Injection Rate	Fast	
Back Pressure	25.0 to 100	psi
Screw Speed	50 to 100	rpm
Cushion	0.150 to 1.00	in

### Injection Notes

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

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	360 to 440	°F
Cylinder Zone 2 Temp.	360 to 440	°F
Cylinder Zone 3 Temp.	360 to 440	°F
Cylinder Zone 4 Temp.	360 to 440	°F
Cylinder Zone 5 Temp.	360 to 440	°F
Die Temperature	360 to 440	°F

### Extrusion Notes

Screw Speed: 30 to 100 rpm

### Notes

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

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