



# Monprene® CP-13235

Teknor Apex Company - Thermoplastic Elastomer

## General Information

### Product Description

Monprene CP-13235 is a high performance thermoplastic elastomer that is designed for a variety of consumer applications. Monprene CP-13235 is low hardness, low density, high flow grade that is suitable for injection molding.

### General

Material Status	• Commercial: Active		
Availability	<ul style="list-style-type: none"><li>• Africa &amp; Middle East</li><li>• Asia Pacific</li></ul>	<ul style="list-style-type: none"><li>• Europe</li><li>• Latin America</li></ul>	<ul style="list-style-type: none"><li>• North America</li></ul>
Features	<ul style="list-style-type: none"><li>• Chemical Resistant</li><li>• Good Adhesion</li><li>• Good Colorability</li><li>• Good Flexibility</li><li>• Good Moldability</li></ul>	<ul style="list-style-type: none"><li>• Good Processability</li><li>• High Flow</li><li>• Low Density</li><li>• Low Hardness</li><li>• Low Specific Gravity</li></ul>	<ul style="list-style-type: none"><li>• Lubricated</li><li>• Slip</li><li>• Without Fillers</li></ul>
Uses	<ul style="list-style-type: none"><li>• Consumer Applications</li><li>• Flexible Grips</li><li>• Gaskets</li><li>• General Purpose</li><li>• Grommets</li></ul>	<ul style="list-style-type: none"><li>• Handles</li><li>• Knobs</li><li>• O-rings</li><li>• Overmolding</li><li>• Plugs</li></ul>	<ul style="list-style-type: none"><li>• Rubber Replacement</li><li>• Seals</li><li>• Soft Touch Applications</li></ul>
RoHS Compliance	• RoHS Compliant		
Appearance	<ul style="list-style-type: none"><li>• Colors Available</li></ul>	<ul style="list-style-type: none"><li>• Natural Color</li></ul>	
Forms	<ul style="list-style-type: none"><li>• Pellets</li></ul>		
Processing Method	<ul style="list-style-type: none"><li>• Extrusion</li></ul>	<ul style="list-style-type: none"><li>• Injection Molding</li></ul>	

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.880		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	25	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Break)	1100	psi	ASTM D412
Tensile Elongation (Break)	700	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	37		
Shore A, 5 sec, Injection Molded	35		

## Processing Information

Injection	Nominal Value	Unit
Rear Temperature	340 to 440	°F
Middle Temperature	340 to 440	°F
Front Temperature	340 to 440	°F

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Injection	Nominal Value	Unit
Nozzle Temperature	340 to 440	°F
Processing (Melt) Temp	340 to 440	°F
Mold Temperature	60 to 90	°F
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).

#### Notes

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