

# Monprene® IN-15056

Teknor Apex Company - Thermoplastic Elastomer

Friday, June 30, 2017

## General Information

### Product Description

Monprene IN-15056 is a general purpose thermoplastic elastomer, available in NAT and pre-colored, designed for the industrial market, including caster wheels. Monprene IN-15056 is a medium hardness, low density, clear grade that exhibits low compression set, good abrasion and chemical resistance, and is suitable for injection molding and extrusion.

### 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>• Abrasion Resistant</li><li>• Chemical Resistant</li><li>• Good Colorability</li><li>• Good Melt Strength</li></ul>	<ul style="list-style-type: none"><li>• Good Tear Strength</li><li>• Low Compression Set</li><li>• Low Density</li><li>• Low Specific Gravity</li></ul>	<ul style="list-style-type: none"><li>• Medium Hardness</li><li>• Weather Resistant</li></ul>
Uses	<ul style="list-style-type: none"><li>• Building Materials</li><li>• Expansion Joint</li><li>• Gaskets</li><li>• Glazing</li><li>• Hose</li></ul>	<ul style="list-style-type: none"><li>• Industrial Applications</li><li>• Outdoor Applications</li><li>• Pipe Seals</li><li>• Potable Water Applications</li><li>• Roof Vents</li></ul>	<ul style="list-style-type: none"><li>• Rubber Replacement</li><li>• Strain Reliefs</li><li>• White Goods &amp; Small Appliances</li><li>• Windows &amp; Doors</li></ul>
RoHS Compliance	• RoHS Compliant		
Appearance	<ul style="list-style-type: none"><li>• Clear/Transparent</li></ul>	<ul style="list-style-type: none"><li>• Colors Available</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
Specific Gravity	0.890		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.0	g/10 min	ASTM D1238
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress <sup>2</sup>			ASTM D412
Across Flow : 100% Strain	288	psi	
Flow : 100% Strain	395	psi	
Tensile Stress <sup>2</sup>			ASTM D412
Across Flow : 300% Strain	562	psi	
Flow : 300% Strain	532	psi	
Tensile Strength <sup>2</sup>			ASTM D412
Across Flow : Break	1450	psi	
Flow : Break	1000	psi	
Flow : Break <sup>3</sup>	3220	psi	
Tensile Elongation <sup>2</sup>			ASTM D412
Across Flow : Break	680	%	
Flow : Break	440	%	
Flow : Break <sup>3</sup>	730	%	
Tear Strength <sup>2</sup>			ASTM D624
Across Flow	267	lbf/in	
Flow	182	lbf/in	
Compression Set <sup>4</sup>			ASTM D395B
73°F, 22 hr	17	%	
158°F, 22 hr	90	%	

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Revision Date: 2/9/2017

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Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 1 sec, Injection Molded	64		
Shore A, 5 sec, Injection Molded	62		

### Legal Statement

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### Processing Information

Injection	Nominal Value	Unit
Rear Temperature	420 to 460	°F
Middle Temperature	420 to 460	°F
Front Temperature	420 to 460	°F
Nozzle Temperature	420 to 460	°F
Processing (Melt) Temp	420 to 460	°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).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	400 to 440	°F
Cylinder Zone 2 Temp.	400 to 440	°F
Cylinder Zone 3 Temp.	400 to 440	°F
Cylinder Zone 4 Temp.	400 to 440	°F
Cylinder Zone 5 Temp.	400 to 440	°F
Die Temperature	400 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.

<sup>2</sup> Die C, 20 in/min

<sup>3</sup> Extruded tape

<sup>4</sup> Type 1



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## Teknor Apex Company - Thermoplastic Elastomer

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