

# ExxonMobil™ PP8013L1

## Polypropylene Impact Copolymer

### Product Description

A nucleated impact copolymer resin with very high impact strength at low temperature. It is suitable for molding applications like containers and tubs, other rigid packaging, tools and boxes. It is also suitable as compounding base stock. applications.

### General

Features	<ul style="list-style-type: none"> <li>Ductile</li> <li>Medium Flow</li> </ul>	<ul style="list-style-type: none"> <li>Nucleated</li> <li>Ultra High Impact Resistance</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Compounding</li> <li>Construction Applications</li> </ul>	<ul style="list-style-type: none"> <li>Industrial Applications</li> <li>Rigid Packaging</li> </ul>
Appearance	<ul style="list-style-type: none"> <li>Natural Color</li> </ul>	
Form(s)	<ul style="list-style-type: none"> <li>Pellets</li> </ul>	
Processing Method	<ul style="list-style-type: none"> <li>Compounding</li> <li>Injection Molding</li> </ul>	

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.3 g/10 min	8.3 g/10 min	ISO 1133
Density	0.9 g/cm <sup>3</sup>	0.9 g/cm <sup>3</sup>	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	2490 psi	17.2 MPa	ISO 527-2/50
Tensile Strain at Yield	4.2 %	4.2 %	ISO 527-2/50
Tensile Modulus	133000 psi	920 MPa	ISO 527-2/1
Flexural Modulus	129000 psi	890 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength (73°F (23°C))	26 ft·lb/in <sup>2</sup>	54 kJ/m <sup>2</sup>	ISO 180/1A
Charpy Notched Impact Strength			ISO 179/1eA
-4°F (-20°C)	4.8 ft·lb/in <sup>2</sup>	10 kJ/m <sup>2</sup>	
32°F (0°C)	6.7 ft·lb/in <sup>2</sup>	14 kJ/m <sup>2</sup>	
73°F (23°C)	27 ft·lb/in <sup>2</sup>	56 kJ/m <sup>2</sup>	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	115 °F	45.9 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	164 °F	73.3 °C	ISO 75-2/B
Vicat Softening Temperature	279 °F	137 °C	ISO 306/A50

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness (Shore D)	56	56	ISO 868

