

ExxonMobil™ PP1304E3

Polypropylene Homopolymer

Product Description

A homopolymer resin designed for injection molding applications requiring excellent flow and good mechanical properties. It is designed for caps and closures, general purpose applications such as toys, electric appliances, packaging and thin walled parts.

General

Uses	<ul style="list-style-type: none"> ▪ Consumer Applications ▪ Crates 	<ul style="list-style-type: none"> ▪ Furniture ▪ Industrial Applications 	<ul style="list-style-type: none"> ▪ Packaging ▪ Tool/Tote Box
Appearance	<ul style="list-style-type: none"> ▪ Natural Color 		
Form(s)	<ul style="list-style-type: none"> ▪ Pellets 		
Processing Method	<ul style="list-style-type: none"> ▪ Compounding 	<ul style="list-style-type: none"> ▪ Injection Molding 	

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11 g/10 min	11 g/10 min	ASTM D1238
Density	0.9 g/cm ³	0.9 g/cm ³	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	4790 psi	33.0 MPa	ISO 527-2/1A/50
Tensile Strain at Yield	9.0 %	9.0 %	ISO 527-2/1A/50
Tensile Modulus	206000 psi	1420 MPa	ISO 527-2/1A/1
Flexural Modulus (0.079 in/min (2.0 mm/min))	193000 psi	1330 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Charpy Notched Impact Strength (73°F (23°C))	1.6 ft·lb/in ²	3.3 kJ/m ²	ISO 179/1eA

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Peak Melting Temperature	318 °F	159 °C	ASTM D3418
Heat Deflection Temperature (0.45 MPa)	174 °F	79.0 °C	ISO 75-2/B

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness (Shore D, 15 sec)	70	70	ISO 868

