

ExxonMobil™ PP7033L1

Polypropylene Impact Copolymer

Product Description

An impact copolymer resin characterized with low flow. It is suitable for extrusion applications like sheet and thermoforming. It is also suitable for molding applications like boxes, buckets, containers and crates and other consumer and industrial applications.

General

Features	▪ Low Flow		
Uses	▪ Consumer Applications ▪ Containers	▪ Industrial Applications ▪ Tool/Tote Box	
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding	▪ Sheet Extrusion	▪ Thermoforming

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.5 g/10 min	5.5 g/10 min	ISO 1133
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	3640 psi	25.1 MPa	ISO 527-2/50
Tensile Strain at Yield	10 %	10 %	ISO 527-2/50
Tensile Modulus	165000 psi	1140 MPa	ISO 527-2/1
Flexural Modulus - Secant	146000 psi	1010 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength (73°F (23°C))	4.6 ft-lb/in ²	9.6 kJ/m ²	ISO 180/1A
Charpy Notched Impact Strength			ISO 179/1eA
-4°F (-20°C)	1.8 ft-lb/in ²	3.8 kJ/m ²	
32°F (0°C)	2.3 ft-lb/in ²	4.9 kJ/m ²	
73°F (23°C)	5.2 ft-lb/in ²	11 kJ/m ²	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Melting Temperature (DSC)	322 °F	161 °C	ISO 3146
Peak Crystallization Temperature (DSC)	235 °F	113 °C	ISO 3146
Heat Deflection Temperature (1.80 MPa)	118 °F	47.6 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	168 °F	75.5 °C	ISO 75-2/B
Vicat Softening Temperature	297 °F	147 °C	ISO 306/A50

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness (Shore D)	62	62	ISO 868

