

ExxonMobil™ PP7054L1

Polypropylene Impact Copolymer

Product Description

A nucleated impact copolymer resin with medium flow. It is suitable for molding applications like consumer products, closures, containers, toys and rigid packaging applications.

General

Features	▪ Good Flow	▪ Nucleated	
Uses	▪ Battery Cases ▪ Construction Applications ▪ Containers	▪ Crates ▪ Industrial Applications ▪ Pails	▪ Rigid Packaging ▪ Tool/Tote Box ▪ Toys
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Compounding	▪ Injection Molding	

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16 g/10 min	16 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	3320 psi	22.9 MPa	ISO 527-2/50
Tensile Strain at Yield	4.6 %	4.6 %	ISO 527-2/50
Tensile Modulus - Secant	180000 psi	1240 MPa	ISO 527-2/1
Flexural Modulus	157000 psi	1080 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength (73°F (23°C))	4.8 ft-lb/in ²	10 kJ/m ²	ISO 180/1A
Charpy Notched Impact Strength			ISO 179/1eA
-4°F (-20°C)	2.3 ft-lb/in ²	4.9 kJ/m ²	
32°F (0°C)	3.1 ft-lb/in ²	6.6 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)	324 °F	162 °C	ISO 3146
Peak Crystallization Temperature (DSC)	252 °F	122 °C	ISO 3146
Heat Deflection Temperature (1.80 MPa)	123 °F	50.3 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	188 °F	86.8 °C	ISO 75-2/B
Vicat Softening Temperature	293 °F	145 °C	ISO 306/A50

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

