

ExxonMobil™ PP7011L1

Polypropylene Impact Copolymer

Product Description

An impact copolymer resin for extrusion applications with high melt viscosity and excellent low-temperature impact strength. It is suitable for cables, pipes, profiles, sheets and thermoforming.

General

Features	- High Impact Resistance - Low Flow
Uses	- Compounding - Corrugated Pipe - Electrical/Electronic Applications - Industrial Applications
Appearance	Natural Color
Form(s)	Pellets
Processing Method	- Extrusion - Extrusion Blow Molding - Injection Molding - Profile Extrusion - Sheet Extrusion - Thermoforming

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	1.2 g/10 min	1.2 g/10 min	
230°C/5.0 kg	4.0 g/10 min	4.0 g/10 min	
Density	0.900 g/cm ³	0.900 g/cm ³	ISO 1183

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	3900 psi	26.9 MPa	ISO 527-2/50
Tensile Strain at Yield	10 %	10 %	ISO 527-2/50
Tensile Modulus - Secant	184000 psi	1270 MPa	ISO 527-2/1
Flexural Modulus - Secant	180000 psi	1240 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength			ISO 180
73°F (23°C), Partial Break	15 ft-lb/in ²	32 kJ/m ²	
Charpy Notched Impact Strength			ISO 179
-4°F (-20°C), Complete Break	1.8 ft-lb/in ²	3.8 kJ/m ²	
32°F (0°C), Complete Break	2.6 ft-lb/in ²	5.4 kJ/m ²	
73°F (23°C), Partial Break	14 ft-lb/in ²	29 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)	234 °F	112 °C	ISO 3146
Heat Deflection Temperature (1.80 MPa)	122 °F	50.2 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	175 °F	79.6 °C	ISO 75-2/B
Vicat Softening Temperature	306 °F	152 °C	ISO 306/A50

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness (Shore D)	63	63	ISO 868

Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).