ExxonMobil

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

Availability [1]	▪ Africa & Middle East	▪ Europe	
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
Revision Date	▪ 01/01/2017		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR)					ISO 1133
230°C/2.16 kg	1.0	g/10 min	1.0	g/10 min	
230°C/5.0 kg	4.0	g/10 min	4.0	g/10 min	
Density	0.900	g/cm³	0.900	g/cm³	ExxonMobil Method

Mechanical	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Stress at Yield	3680	psi	25.4	MPa	ISO 527-2/50
Tensile Strain at Yield	10	%	10	%	ISO 527-2/50
Tensile Modulus - Secant (73°F (23°C))	165000	psi	1140	MPa	ISO 527-2/1
Flexural Modulus	161000	psi	1110	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/in²	31	kJ/m²	
Charpy Notched Impact Strength					ISO 179/1eA
-4°F (-20°C)	1.7	ft·lb/in²	3.6	kJ/m²	
32°F (0°C)	2.4	ft·lb/in²	5.1	kJ/m²	
73°F (23°C)	14	ft·lb/in²	29	kJ/m²	

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Heat Deflection Temperature (1.80 MPa)	118	°F	47.8	°C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	169	°F	76.0	°C	ISO 75-2/B
Vicat Softening Temperature	295	°F	146	°C	ISO 306/A50

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness (Shore D)	64	64	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).

Notes

Typical properties: these are not to be construed as specifications.

[1] Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

ExxonMobil™ PP7011L1
Polypropylene Impact Copolymer

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

exxonmobilchemical.com