

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/cm ³	0.900 g/cm ³	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 527-1/1
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/in ²	31 kJ/m ²	
Charpy Notched Impact Strength			ISO 179/1eA
-4°F (-20°C)	1.7 ft·lb/in ²	3.6 kJ/m ²	
32°F (0°C)	2.4 ft·lb/in ²	5.1 kJ/m ²	
73°F (23°C)	14 ft·lb/in ²	29 kJ/m ²	

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.

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

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