

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) 230°C/2.16 kg	1.0 g/10 min	1.0 g/10 min	ISO 1133
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 73°F (23°C), Partial Break	15 ft·lb/in ²	31 kJ/m ²	ISO 180
Charpy Notched Impact Strength -4°F (-20°C)	1.7 ft·lb/in ²	3.6 kJ/m ²	ISO 179/1eA
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.

ExxonMobil™ PP7011L1
Polypropylene Impact Copolymer

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

©2023 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com