

## Product Datasheet



# 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 <sup>1</sup> | <ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Europe</li> </ul>                                                                                                        |
| Features                  | <ul style="list-style-type: none"> <li>High Impact Resistance</li> <li>Low Flow</li> </ul>                                                                                                        |
| Uses                      | <ul style="list-style-type: none"> <li>Compounding</li> <li>Electrical/Electronic Applications</li> <li>Corrugated Pipe</li> <li>Industrial Applications</li> </ul>                               |
| Appearance                | <ul style="list-style-type: none"> <li>Natural Color</li> </ul>                                                                                                                                   |
| Form(s)                   | <ul style="list-style-type: none"> <li>Pellets</li> </ul>                                                                                                                                         |
| Processing Method         | <ul style="list-style-type: none"> <li>Extrusion</li> <li>Injection Molding</li> <li>Extrusion Blow Molding</li> <li>Profile Extrusion</li> <li>Sheet Extrusion</li> <li>Thermoforming</li> </ul> |
| Revision Date             | <ul style="list-style-type: none"> <li>01/01/2017</li> </ul>                                                                                                                                      |

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

| 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.

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

Product Datasheet

**ExxonMobil****ExxonMobil™ PP7011L1**  
Polypropylene Impact CopolymerFor additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

©2024 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](http://exxonmobilchemical.com)