

# ExxonMobil™ PP7031E2

## Polypropylene Impact Copolymer

### Product Description

An impact copolymer resin for extrusion applications with high melt viscosity and excellent rigidity, shock resistance and dimensional stability. It is designed for corrugated pipes, profiles, sheets and thermoforming .

### General

Availability <sup>1</sup>	▪ Africa & Middle East	▪ Europe	
Features	▪ High Impact Resistance ▪ High Stiffness	▪ Highly Crystalline ▪ Low Flow	▪ Nucleated
Uses	▪ Compounding ▪ Construction Applications	▪ Consumer Applications ▪ Corrugated Pipe	▪ Industrial Applications ▪ Tool/Tote Box
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Compression Molding ▪ Profile Extrusion	▪ Sheet Extrusion ▪ Thermoforming	
Revision Date	▪ 03/01/2010		

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	0.9 g/cm <sup>3</sup>	0.9 g/cm <sup>3</sup>	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	4060 psi	28.0 MPa	ISO 527-2/50
Tensile Strain at Yield	8.0 %	8.0 %	ISO 527-2/50
Tensile Modulus - Secant	203000 psi	1400 MPa	ISO 527-2/1
Flexural Modulus - Secant	196000 psi	1350 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength (73°F (23°C))	29 ft-lb/in <sup>2</sup>	60 kJ/m <sup>2</sup>	ISO 180/1A
Charpy Notched Impact Strength			ISO 179/1eA
-4°F (-20°C)	2.4 ft-lb/in <sup>2</sup>	5.0 kJ/m <sup>2</sup>	
32°F (0°C)	3.8 ft-lb/in <sup>2</sup>	8.0 kJ/m <sup>2</sup>	
73°F (23°C)	36 ft-lb/in <sup>2</sup>	75 kJ/m <sup>2</sup>	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Melting Temperature (DSC)	327 °F	164 °C	ISO 3146
Peak Crystallization Temperature (DSC)	261 °F	127 °C	ISO 3146
Heat Deflection Temperature (1.80 MPa)	127 °F	53.0 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	199 °F	93.0 °C	ISO 75-2/B
Vicat Softening Temperature	300 °F	149 °C	ISO 306/A50

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness (Shore D)	62	62	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).

ExxonMobil™ PP7031E2  
Polypropylene Impact Copolymer

### 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.

For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

©2015 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 Chemical" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

[exxonmobilchemical.com](http://exxonmobilchemical.com)

