

# ExxonMobil™ PP7033E2

## Polypropylene Impact Copolymer

### Product Description

A high crystallinity, high impact copolymer resin designed for injection molding applications requiring medium melt flow rate.

### General

Availability <sup>1</sup>	▪ North America
Features	<ul style="list-style-type: none"> <li>▪ Good Colorability</li> <li>▪ Good Dimensional Stability</li> <li>▪ Medium Flow</li> <li>▪ Medium Impact Resistance</li> </ul>
Uses	<ul style="list-style-type: none"> <li>▪ Automotive Applications</li> <li>▪ Automotive Interior Parts</li> <li>▪ Automotive Interior Trim</li> <li>▪ Child Safety Seats</li> <li>▪ Consumer Applications</li> <li>▪ Toys</li> </ul>
Appearance	▪ Natural Color
Form(s)	▪ Pellets
Processing Method	▪ Injection Molding
Revision Date	▪ 06/12/2020

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.900 g/cm <sup>3</sup>	0.900 g/cm <sup>3</sup>	ExxonMobil Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8 g/10 min	8 g/10 min	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield 2.0 in/min (51 mm/min)	3420 psi	23.6 MPa	ASTM D638
Tensile Stress at Yield	3340 psi	23.0 MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	6.2 %	6.2 %	ASTM D638
Tensile Strain at Yield	6.3 %	6.3 %	ISO 527-2/50
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)	153000 psi	1060 MPa	ASTM D790A
0.51 in/min (13 mm/min)	176000 psi	1210 MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	160000 psi	1100 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact 0°F (-18°C)	1.2 ft-lb/in	64 J/m	ASTM D256A
73°F (23°C)	3.1 ft-lb/in	170 J/m	
Notched Izod Impact Strength -40°F (-40°C)	2.6 ft-lb/in <sup>2</sup>	5.4 kJ/m <sup>2</sup>	ISO 180/1A
-4°F (-20°C)	3.1 ft-lb/in <sup>2</sup>	6.6 kJ/m <sup>2</sup>	
Charpy Notched Impact Strength -22°F (-30°C)	2.3 ft-lb/in <sup>2</sup>	4.9 kJ/m <sup>2</sup>	ISO 179/1eA
-4°F (-20°C)	2.9 ft-lb/in <sup>2</sup>	6.1 kJ/m <sup>2</sup>	
32°F (0°C)	3.6 ft-lb/in <sup>2</sup>	7.6 kJ/m <sup>2</sup>	
73°F (23°C)	7.5 ft-lb/in <sup>2</sup>	16 kJ/m <sup>2</sup>	
Gardner Impact -20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	187 in-lb	21.1 J	ASTM D5420

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	118 °F	47.9 °C	ISO 75-2/ Af
Heat Deflection Temperature (0.45 MPa)	168 °F	75.7 °C	ISO 75-2/ Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	176 °F	80.0 °C	ASTM D648
DTUL @ 66psi - Annealed	229 °F	110 °C	ASTM D648

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Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	▪ 88 ▪ 88	▪ 88 ▪ 88	ASTM D785

#### Legal Statement

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.

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.

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

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