

ExxonMobil™ PP7032E3

Polypropylene Impact Copolymer

Product Description

An impact copolymer resin designed for consumer and industrial products requiring very high impact resistance.

General

Availability ¹	<ul style="list-style-type: none"> Asia Pacific Latin America North America
Features	<ul style="list-style-type: none"> Balanced Stiffness/Toughness High Stiffness Medium Flow Ultra High Impact Resistance
Uses	<ul style="list-style-type: none"> Appliance Components Battery Cases Consumer Applications Industrial Applications Rigid Packaging Toys
Appearance	<ul style="list-style-type: none"> Natural Color
Form(s)	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Injection Molding
Revision Date	<ul style="list-style-type: none"> 08/01/2015

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0 g/10 min	4.0 g/10 min	ASTM D1238
Density	0.900 g/cm ³	0.900 g/cm ³	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield			ASTM D638
2.0 in/min (51 mm/min)	3440 psi	23.7 MPa	
Tensile Stress at Yield	3340 psi	23.0 MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	6.0 %	6.0 %	ASTM D638
Tensile Strain at Yield	5.6 %	5.6 %	ISO 527-2/50
Tensile Modulus	173000 psi	1200 MPa	ISO 527-1/1
Flexural Modulus - 1% Secant			
0.051 in/min (1.3 mm/min)	176000 psi	1210 MPa	ASTM D790A
0.51 in/min (13 mm/min)	188000 psi	1300 MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	165000 psi	1140 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	No Break	No Break	ASTM D256A
Notched Izod Impact Strength			ISO 180/1A
-40°F (-40°C)	4.3 ft-lb/in ²	9.0 kJ/m ²	
0°F (-18°C)	5.2 ft-lb/in ²	11 kJ/m ²	
73°F (23°C)	25 ft-lb/in ²	53 kJ/m ²	
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	3.2 ft-lb/in ²	6.8 kJ/m ²	
73°F (23°C)	27 ft-lb/in ²	57 kJ/m ²	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	122 °F	50.2 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	180 °F	82.0 °C	ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	195 °F	90.6 °C	ASTM D648
DTUL (66 psi) - Annealed	234 °F	112 °C	ASTM D648

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	84	84	ASTM D785

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Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

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.

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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