



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	• Asia Pacific		
Features	• Balanced Stiffness/Toughness • High Stiffness	• Medium Flow • Ultra High Impact Resistance	
Uses	• Appliance Components • Battery Cases	• Consumer Applications • Industrial Applications	• Rigid Packaging • Toys
Appearance	• Natural Color		
Form(s)	• Pellets		
Processing Method	• Injection Molding		
Revision Date	• March 2010		

Physical	Typical Value	Unit	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Density	0.9	g/cm ³	ExxonMobil Method

Mechanical	Typical Value	Unit	Test Based On
Tensile Strength at Yield (51 mm/min)	23.9	MPa	ASTM D638
Tensile Stress at Yield	23.4	MPa	ISO 527-2/50
Elongation at Yield (51 mm/min)	7.3	%	ASTM D638
Tensile Strain at Yield	6.3	%	ISO 527-2/50
Tensile Modulus	1260	MPa	ISO 527-2/1
Flexural Modulus - 1% Secant			
1.3 mm/min	1100	MPa	ASTM D790A
13 mm/min	1240	MPa	ASTM D790B
Flexural Modulus (2.0 mm/min)	1200	MPa	ISO 178

Impact	Typical Value	Unit	Test Based On
Notched Izod Impact (23°C)	No Break		ASTM D256A
Notched Izod Impact Strength			ISO 180/1A
-40°C	4.7	kJ/m ²	
-18°C	7.0	kJ/m ²	
23°C	28	kJ/m ²	
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.8	kJ/m ²	
-20°C	6.1	kJ/m ²	
0°C	8.1	kJ/m ²	
23°C	18	kJ/m ²	
Gardner Impact (-29°C, 3.18 mm, Geometry GC)	30.8	J	ASTM D5420

Thermal	Typical Value	Unit	Test Based On
Heat Deflection Temperature (1.80 MPa)	51.4	°C	ISO 75-2/A

Heat Deflection Temperature (0.45 MPa)	87.1 °C	ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	88.6 °C	ASTM D648
DTUL @ 66psi - Annealed	113 °C	ASTM D648

Hardness	Typical Value	Test Based On
Rockwell Hardness	88	ASTM D785

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.

Notes

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.

For additional technical, sales and order assistance:

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Typical properties: these are not to be construed as specifications.

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