ExxonMobil™ PP7033E3

Polypropylene Impact Copolymer

Product Description

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

General

Availability [1]	▪ Asia Pacific		
Features	▪ Balanced Stiffness/Toughness ▪ High Impact Resistance	▪ High Stiffness ▪ Medium Flow	
Uses	▪ Consumer Applications ▪ Containers	▪ Crates ▪ Industrial Applications	▪ Pails ▪ Rigid Packaging
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding		
Revision Date	▪ 03/01/2010		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	8.0	g/10 min	ASTM D1238
Density	0.900	g/cm³	0.900	g/cm³	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)	3460	psi	23.9	MPa	
Tensile Stress at Yield	3350	psi	23.1	MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	6.5	%	6.5	%	ASTM D638
Tensile Strain at Yield	5.6	%	5.6	%	ISO 527-2/50
Tensile Modulus	187000	psi	1290	MPa	ISO 527-2/1
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	165000	psi	1140	MPa	ASTM D790A
0.51 in/min (13 mm/min)	186000	psi	1280	MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	173000	psi	1190	MPa	ISO 178

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (73°F (23°C))	5.2	ft·lb/in	280	J/m	ASTM D256A
Notched Izod Impact Strength					ISO 180/1A
-40°F (-40°C)	1.9	ft·lb/in²	4.0	kJ/m²	
0°F (-18°C)	2.7	ft·lb/in²	5.7	kJ/m²	
73°F (23°C)	6.4	ft·lb/in²	13	kJ/m²	
Charpy Notched Impact Strength					ISO 179/1eA
-22°F (-30°C)	2.0	ft·lb/in²	4.3	kJ/m²	
-4°F (-20°C)	2.6	ft·lb/in²	5.4	kJ/m²	
32°F (0°C)	3.2	ft·lb/in²	6.7	kJ/m²	
73°F (23°C)	6.6	ft·lb/in²	14	kJ/m²	
Gardner Impact					ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	249	in·lb	28.1	J	

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Heat Deflection Temperature (1.80 MPa)	124	°F	50.9	°C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	186	°F	85.3	°C	ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	194	°F	90.2	°C	ASTM D648
DTUL @ 66psi - Annealed	237	°F	114	°C	ASTM D648

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Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	89	89	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. 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.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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