

ExxonMobil™ PP7033E3

Polypropylene Impact Copolymer

Product Description

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

General					
7 (Valiability	Asia Pacific				
	Balanced Stiffness/To				
	High Impact Resistar		Medium Flow		
	Consumer Application	ons	Crates Industrial Applications	 Pails 	Dealeraina
	Containers		 Industrial Applications 	• Rigia	Packaging
FF 11 11	Natural Color				
	Pellets				
	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		g/10 min		g/10 min	ASTM D1238
Density		g/cm ³		g/cm³	ExxonMobil Method
Mechanical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Tensile Strength at Yield	7,5,00, 70,00	(=g)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(=-)	ASTM D638
2.0 in/min (51 mm/min)	3460	psi	23.9	MPa	2 = 230
Tensile Stress at Yield	3350	· · · · · · · · · · · · · · · · · · ·		MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min)			6.5		ASTM D638
Tensile Strain at Yield	5.6	%	5.6	%	ISO 527-2/50
Tensile Modulus	187000	psi	1290	MPa	ISO 527-1/1
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	173000	psi	1190	MPa	ISO 178
(0.079 in/min (2.0 mm/min))					
mpact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Notched Izod Impact (73°F (23°C))		ft·lb/in		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		kJ/m²	
-4°F (-20°C)		ft·lb/in²		kJ/m²	
32°F (0°C)		ft·lb/in²		kJ/m²	
73°F (23°C)	6.6	ft·lb/in²	14	kJ/m²	
Gardner Impact -20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	249	in·lb	28.1	J	ASTM D5420
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	124	_	50.9		ISO 75-2/A
Heat Deflection Temperature (1.30 MPa)	186		85.3		ISO 75-2/Bf
Deflection Temperature (0.43 MPa) Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	194		90.2		ASTM D648
DTUL (66 psi) - Annealed	237	°F	114	°C	ASTM D648
2.02 (00 psi) / imedico	257		114		7.51111.50-70

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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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