

ExxonMobilTM PP7033E3 Polypropylene Impact Copolymer

Product Description

General Availability ¹

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

Key Features

- 1. Balanced Stiffness/Toughness
- 2. High Impact Resistance
- 3. High Stiffness
- 4. Medium Flow

Availability ¹	Asia Pacific	Orața	Delle
Uses •	Consumer Applications • Containers		PailsRigid Packaging
Appearance •	Natural Color		
Form(s)	Pellets		
Processing Method •	Injection Molding		
Revision Date	09/01/2018		
	00/01/2010		
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/cm ³	0.900 g/cm ³	ExxonMobil Method
Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield			
2.0 in/min (51 nm/min)	3460 psi	23.9 MPa	ASTM D638
Tensile Stress at Yield	3350 psi	23.1 MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51		0.5.%	
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		44 40 MD-	
0.051 in/min (1.3 mm/minn)	165000 psi	1140 MPa	ASTM D790A
0.51 in/min (13 mm/minn)	186000 psi	1280 MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	173000 psi	1190 MPa	ISO 178
	173000 psi	1 190 MPa	130 176
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/in ²	4.0 kJ/m ²	
0°F (-18°C)	2.7 ft*lb/in^2	5.7 kJ/m^2	
73°F (23°C)	6.4 ft*lb/in ²	13 kJ/m ²	
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	2.0 ft*lb/in ²	4.3 kJ/m ²	
-22°F (-30°C) -4°F (-20°C)	$2.6 \text{ ft}^{10/\text{in}^2}$	5.4 kJ/m ²	
-4 F (-20 C) 32°F (0°C)	3.2 ft*lb/in^2	6.7 kJ/m^2	
32 F (0°C) 73°F (23°C)	6.6 ft*lb/in ²	14 kJ/m ²	
Gardner Impact			ASTM D5420
-20°F (-29°C) 0.125 in (3.18	249 in*lb	28.1 J	
mm),Geometry GC			

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	124 °F	50 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	186 °F	85.3 °C	ISO 75-2/Bf
Deflection Temperature Under Load	194 °F	90.2 °C	ASTM D648
(DTUL) at 66 psi-Unannealed			
DTUL @66psi-Annealed	237 °F	114 °C	ASTM D648

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	89	89	ASTM D785

Notes

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

¹Product 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 please contact our sales representative

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