

ExxonMobil™ PP7033E2

Polypropylene Impact Copolymer

Product Description

A high crystallinity, high impact copolymer resin designed for injection molding applications requiring medium melt flow rate.

General

Features	▪ Good Colorability ▪ Good Dimensional Stability	▪ Medium Flow ▪ Medium Impact Resistance	
Uses	▪ Automotive Applications ▪ Automotive Interior Parts	▪ Automotive Interior Trim ▪ Child Safety Seats	▪ Consumer Applications ▪ Toys
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding		

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 mm/min)	3420 psi	23.6 MPa	ASTM D638
Tensile Stress at Yield	3340 psi	23.0 MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	6.2 %	6.2 %	ASTM D638
Tensile Strain at Yield	6.3 %	6.3 %	ISO 527-2/50
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)	153000 psi	1060 MPa	ASTM D790A
0.51 in/min (13 mm/min)	176000 psi	1210 MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	160000 psi	1100 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact 0°F (-18°C)	1.2 ft-lb/in	62 J/m	ASTM D256A
73°F (23°C)	3.1 ft-lb/in	160 J/m	
Notched Izod Impact Strength -40°F (-40°C)	2.6 ft-lb/in ²	5.4 kJ/m ²	ISO 180/1A
-4°F (-20°C)	3.1 ft-lb/in ²	6.6 kJ/m ²	
Charpy Notched Impact Strength -22°F (-30°C)	2.3 ft-lb/in ²	4.9 kJ/m ²	ISO 179/1eA
-4°F (-20°C)	2.9 ft-lb/in ²	6.1 kJ/m ²	
32°F (0°C)	3.6 ft-lb/in ²	7.6 kJ/m ²	
73°F (23°C)	7.5 ft-lb/in ²	16 kJ/m ²	
Gardner Impact -20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	187 in-lb	21.1 J	ASTM D5420

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	118 °F	47.9 °C	ISO 75-2/ Af
Heat Deflection Temperature (0.45 MPa)	168 °F	75.7 °C	ISO 75-2/ Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	176 °F	80.0 °C	ASTM D648
DTUL @ 66psi - Annealed	229 °F	110 °C	ASTM D648



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Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	88	88	ASTM D785

