



Sunday, September 10, 2006

ExxonMobil® PP 7033E3

ExxonMobil Chemical Company - Polypropylene Impact Copolymer

Unit System:

Actions

Legend (Open)



General Information

Product Description

High impact copolymer resin for general purpose injection molding of consumer goods, battery cases and industrial goods. No interaction with light stabilizers.

General

Material Status	I	Commercial: Active		
Availability	I	Asia Pacific Rim		
Test Standards Available	I	ASTM ISO		
Features	I	Copolymer, Impact Impact Resistance, High		
Uses	I	Battery Cases Consumer Applications	I	General Purpose Industrial Applications
Forms	I	Pellets		
Processing Method	I	Injection Molding		

ASTM and ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density -Specific Gravity	0.912	sp gr 23/23°C	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength @ Yield ²	3630	psi	ASTM D638
Tensile Elongation @ Yld ²	7.0	%	ASTM D638
Flexural Modulus			ASTM D790
(Procedure A) ³	1% Secant: 167000	psi	
(Procedure B) ⁴	1% Secant: 188000	psi	
Flexural Modulus ⁵	141000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73 °F) ⁶	3.65	ft-lb/in	ASTM D256
Notched Izod Impact Strength (73 °F) ⁷	5.95	ft-lb/in ²	ISO 180
Multi-Axial Instrumented Impact Energy (-22 °F, 0.0787 in)	11.1	ft-lb	ISO 6603-2
Gardner Impact (-20 °F, 0.126 in) ⁸	248	in-lb	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
DTUL @66psi - Unannealed	207	°F	ASTM D648
HDT B (0.45 MPa) Unannealed	185	°F	ISO 75B-1, -2

Processing Information

Injection	Nominal Value	Unit
Processing (Melt) Temp	392 to 482	°F

Notes

- 1 Typical properties: these are not to be construed as specifications.
- 2 2.0 in/min
- 3 0.051 in/min
- 4 0.51 in/min
- 5 0.079 in/min
- 6 Method A
- 7 Type 1, Notch A
- 8 Method G, Geometry GC



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