

# ExxonMobil™ PP

## PP7032E3 Copolymer Grade for Injection Molding

### Description

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

Resin Properties	ASTM		ISO	
	Method	Typical Values <sup>1</sup>	Method	Typical Values <sup>3</sup>
Melt Flow Rate (230°C/2.16kg)	D 1238	4.0 g/10min		
Density	D 792	0.91 g/cm <sup>3</sup>		
<b>Mechanical Properties</b>				
Tensile Strength @ Yield (2in/min, 50mm/min)	D 638	25 MPa		
Elongation @ Yield (2in/min, 50mm/min)	D 638	7 %		
Flexural Modulus, 1% Secant (0.05 in/min, 1.3mm/min)	D 790A	1138 MPa		
Flexural Modulus, 1% Secant (0.50 in/min, 13mm/min)	D 790B <sup>2</sup>	1317 MPa		
Flexural Modulus, 0.05-0.25% Chord (0.08 in/min, 2mm/min)			178	967 MPa
Izod Impact Strength Notched, @ 23°C (73°F)	D 256 Method A	No break	180-1A	38.6 KJ/m <sup>2</sup> (Partial break)
Gardner Impact Strength 0.125 in (3.2mm) thick disk @ -29°C (-20°F)	D 5420 Geometry GC	28 J		
Instrumented Impact Strength @ -30°C (2mm thick plaque)			ISO 6603-2	16 J
<b>Thermal Properties</b>				
Heat Deflection Temperature @ 66psi, 455KPa	D 648	97 °C	75-2	84°C
Typical Processing Temperature		200 - 250°C		

1. Values given are typical and should not be interpreted as specification.

2. Data provided as information only.

3. Values by ISO and ASTM methods have no direct correlation.

### FDA Status

For applications requiring FDA certification, please contact your ExxonMobil representative for compliance information.