

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

<sup>1.</sup> Values given are typical and should not be interpreted as specification.

## **FDA Status**

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

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<sup>2.</sup> Data provided as information only.

<sup>3.</sup> Values by ISO and ASTM methods have no direct correlation.