

ExxonMobil™ PP8244E1

Polypropylene Impact Copolymer

Product Description

A high crystallinity, high impact copolymer resin designed for injection molded applications requiring excellent processing attributes.

General

Features	- Balanced Stiffness/Toughness - Good Impact Resistance	- Good Processability - Heat Aging Resistant	- Medium Molecular Weight - Nucleated
Appearance	Natural Color		
Form(s)	Pellets		
Processing Method	- Compounding - Injection Molding		

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16 g/10 min	16 g/10 min	ISO 1133
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			ASTM D638
2.0 in/min (51 mm/min)	2780 psi	19.2 MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	7.0 %	7.0 %	ASTM D638
Flexural Modulus - 1% Secant			
0.051 in/min (1.3 mm/min)	136000 psi	938 MPa	ASTM D790A
0.51 in/min (13 mm/min)	156000 psi	1080 MPa	ASTM D790B

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Instrumented Dart Impact			ASTM D3763
-40°F (-40°C), 0.125 in (3.18 mm)	34.2 ft·lb	46.4 J	
-20°F (-29°C), 0.125 in (3.18 mm)	29.3 ft·lb	39.7 J	
Notched Izod Impact (73°F (23°C))	No Break	No Break	ASTM D256A

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	189 °F	87.0 °C	ASTM D648

