

ExxonMobil™ PP7085E1

Polypropylene Impact Copolymer

Product Description

A nucleated impact copolymer resin with high flow, excellent stiffness/toughness balance and antistatic properties for good molding behavior. It is suitable for molding applications like disposable houseware, consumer products, containers and other rigid packaging applications

General

Features	- Antistatic - Controlled Rheology	- High Flow - Nucleated	
Uses	- Containers - Industrial Applications	- Pails - Rigid Packaging	Tool/Tote Box
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)	75 g/10 min	75 g/10 min	ISO 1133
Density	0.9 g/cm ³	0.9 g/cm ³	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	3340 psi	23.0 MPa	ISO 527-2/50
Tensile Strain at Yield	5.0 %	5.0 %	ISO 527-2/50
Tensile Modulus	167000 psi	1150 MPa	ISO 527-2/1
Flexural Modulus	163000 psi	1130 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength (73°F (23°C))	2.6 ft-lb/in ²	5.5 kJ/m ²	ISO 180/1A
Charpy Notched Impact Strength			ISO 179/1eA
-4°F (-20°C)	1.9 ft-lb/in ²	4.0 kJ/m ²	
32°F (0°C)	2.4 ft-lb/in ²	5.0 kJ/m ²	
73°F (23°C)	3.6 ft-lb/in ²	7.5 kJ/m ²	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Melting Temperature (DSC)	322 °F	161 °C	ISO 3146
Peak Crystallization Temperature (DSC)	253 °F	123 °C	ISO 3146
Heat Deflection Temperature (1.80 MPa)	122 °F	50.0 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	180 °F	82.0 °C	ISO 75-2/B
Vicat Softening Temperature	297 °F	147 °C	ISO 306/A50

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness (Shore D)	61	61	ISO 868

