

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

Availability ¹	▪ Africa & Middle East	▪ Europe
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
Revision Date	▪ 03/01/2010	

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

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.



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Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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