Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ PP7085E1

Polypropylene Impact Copolymer

Product Description

An 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 housewares, consumer products, containers and other rigid packaging applications

General

Availability [1]	▪ Africa & Middle East	▪ Europe	
Features	▪ Antistatic	▪ Controlled Rheology	▪ High Flow
Uses	▪ Containers ▪ Industrial Applications	▪ Pails ▪ Rigid Packaging	▪ Tool/Tote Box
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Compounding	▪ Injection Molding	
Revision Date	▪ 05/05/2022		

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	0.900	g/cm³	0.900	g/cm³	ExxonMobil Method

Mechanical	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Stress at Yield	3090	psi	21.3	MPa	ISO 527-2/50
Tensile Strain at Yield	4.1	%	4.1	%	ISO 527-2/50
Tensile Modulus	164000	psi	1130	MPa	ISO 527-1/1
Flexural Modulus	158000	psi	1090	MPa	ISO 178

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact Strength (73°F (23°C))	3.4	ft·lb/in²	7.2	kJ/m²	ISO 180/1A
Charpy Notched Impact Strength					ISO 179/1eA
-4°F (-20°C)	2.0	ft·lb/in²	4.3	kJ/m²	
32°F (0°C)	2.8	ft·lb/in²	5.9	kJ/m²	
73°F (23°C)	3.8	ft·lb/in²	8.0	kJ/m²	

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Heat Deflection Temperature (1.80 MPa)	120	°F	49.1	°C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	175	°F	79.2	°C	ISO 75-2/B
Vicat Softening Temperature	293	°F	145	°C	ISO 306/A50

Hardness	Typical Value (English)		Typical Value (SI)		Test Based On
Shore Hardness (Shore D)	58		58		ISO 868

Legal Statement

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

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

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.

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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