

ExxonMobil™ PP1055E2

Polypropylene Homopolymer

Product Description

A homopolymer resin with good flowability and antistatic properties. It is designed for molding of media packaging, containers and other articles requiring fast molding cycles.

General

Availability ¹	▪ Africa & Middle East	▪ Europe
Features	▪ Antistatic	▪ Fast Molding Cycle
Uses	▪ Caps ▪ Closures	▪ Consumer Applications ▪ Containers ▪ Lids ▪ Rigid Packaging
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)	53 g/10 min	53 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 Stress at Yield	5180 psi	35.7 MPa	ISO 527-2/50
Tensile Strain at Yield	7.9 %	7.9 %	ISO 527-2/50
Tensile Modulus - Secant (73°F (23°C))	239000 psi	1650 MPa	ISO 527-1/1
Flexural Modulus	235000 psi	1620 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength (73°F (23°C))	1.0 ft·lb/in ²	2.2 kJ/m ²	ISO 180/1A
Charpy Notched Impact Strength (73°F (23°C))	1.1 ft·lb/in ²	2.4 kJ/m ²	ISO 179/1eA

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	129 °F	54.0 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	207 °F	97.0 °C	ISO 75-2/B
Vicat Softening Temperature	307 °F	153 °C	ISO 306/A50

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness (Shore D)	69	69	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.

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

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