

ExxonMobil™ PP1055E2

Polypropylene Homopolymer

Product Description

A nucleated 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

Features	▪ Antistatic	▪ Fast Molding Cycle	▪ Nucleated
Uses	▪ Caps ▪ Closures	▪ Consumer Applications ▪ Containers	▪ Lids ▪ Rigid Packaging
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)	53 g/10 min	53 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	5190 psi	35.8 MPa	ISO 527-2/50
Tensile Strain at Yield	7.7 %	7.7 %	ISO 527-2/50
Tensile Modulus	244000 psi	1680 MPa	ISO 527-2/1
Flexural Modulus	241000 psi	1660 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength (73°F (23°C))	1.1 ft-lb/in ²	2.3 kJ/m ²	ISO 180/1A
Charpy Notched Impact Strength (73°F (23°C))	1.2 ft-lb/in ²	2.6 kJ/m ²	ISO 179/1eA

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Melting Temperature (DSC)	324 °F	162 °C	ISO 3146
Peak Crystallization Temperature (DSC)	255 °F	124 °C	ISO 3146
Heat Deflection Temperature (1.80 MPa)	126 °F	52.0 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	205 °F	96.0 °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)	71	71	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.