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/cm³	0.9	g/cm³	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/in²	2.3	kJ/m²	ISO 180/1A
Charpy Notched Impact Strength (73°F (23°C))	1.2	ft·lb/in²	2.6	kJ/m²	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

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