Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ PP5032E5

Polypropylene Homopolymer

Product Description

PP 5032E5 is a polypropylene homopolymer type designed for production of monofilaments, tapes for the textile industry, geo textiles, fibrillated tapes for ropes and twines in the packaging, agriculture and fishing industries and suitable for chill roll and water bath lines.

General

Availability [1]	▪ Africa & Middle East	▪ Asia Pacific	
Features	▪ Low Water Carryover		
Uses	▪ Consumer Applications ▪ Fabrics	▪ Fibers ▪ Heavy-duty Bags	▪ Packaging
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Extrusion	▪ Filament Extrusion	▪ Thermoforming
Revision Date	▪ 05/01/2017		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	3.0	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	4790	psi	33.0	MPa	ISO 527-2/1A/50
Tensile Strain at Yield	9.0	%	9.0	%	ISO 527-2/1A/50
Tensile Modulus	209000	psi	1440	MPa	ISO 527-1/1A/1
Flexural Modulus (0.079 in/min (2.0 mm/min))	207000	psi	1430	MPa	ISO 178

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Charpy Notched Impact Strength (73°F (23°C))	2.1	ft·lb/in²	4.5	kJ/m²	ISO 179/1eA

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Peak Melting Temperature	320	°F	160	°C	ASTM D3418
Heat Deflection Temperature (0.45 MPa)	187	°F	86.0	°C	ISO 75-2/B

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness (Shore D, 15 sec)	70	70	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: Contact Us

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