

ExxonMobil™ PP5032E3

Polypropylene Homopolymer

Product Description

PP 5032E3 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

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

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	0.9 g/cm ³	0.9 g/cm ³	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	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 527-2/1A/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/in ²	4.5 kJ/m ²	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

