

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

Availability ¹	• Africa & Middle East	• Asia Pacific
Features	• Low Water Carryover	
Uses	• Consumer Applications • Fabrics	• Fibers • Heavy-duty Bags
Appearance	• Natural Color	
Form(s)	• Pellets	
Processing Method	• Extrusion	• Filament Extrusion
Revision Date	• 03/01/2010	• 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	0.900 g/cm ³	0.900 g/cm ³	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	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

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.

ExxonMobil™ PP5032E3
Polypropylene Homopolymer

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

©2019 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking “X” device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms “we,” “our,” “ExxonMobil Chemical” and “ExxonMobil” are each used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com