Product Datasheet

ExxonMobil Signature Polymers

Exceed™ PP3155E5

Polypropylene Homopolymer

Product Description

Exceed™ PP3155E5 is a homopolymer resin designed for spunbond nonwovens.The resin is particularly suited for excellent spinning for uniform, high quality fabrics. Formulated for applications requiring low color and low gas fading discoloration. Produced with a catalyst system that does not include intentionally-added phthalate compounds. Exceed™ PP 3155E5 is the version of PP3155 and/or PP3155E3 based on a catalyst system which does not include intentionally-added phthalates and contains a non-gas fade additive package.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ North America	
Features	▪ Controlled Rheology ▪ Gas-fading Resistant	▪ High Flow ▪ Low Smoke Emission	▪ Narrow Molecular Weight Distribution
Uses	▪ Fibers ▪ Industrial Applications	▪ Packaging ▪ Personal Care	▪ Spunbond Nonwovens
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Fiber (Spinning) Extrusion	▪ Filament Extrusion	
Revision Date	▪ 12/13/2022		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	36	g/10 min	36	g/10 min	ASTM D1238
Density	0.900	g/cm³	0.900	g/cm³	ExxonMobil Method

Mechanical	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield					ASTM D638
2.0 in/min (51 mm/min)	5020	psi	34.6	MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	10	%	10	%	ASTM D638
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	201000	psi	1390	MPa	ASTM D790A
0.51 in/min (13 mm/min)	234000	psi	1610	MPa	ASTM D790B

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (73°F (23°C))	0.64	ft·lb/in	34	J/m	ASTM D256A
Gardner Impact (-22°F (-30°C))	96.4	in·lb	10.9	J	ASTM D5420

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	194	°F	90.0	°C	ASTM D648

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	106	106	ASTM D785

Legal Statement

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

Product Datasheet

ExxonMobil

Exceed™ PP3155E5
Polypropylene Homopolymer

For additional technical, sales and order assistance: Contact Us

©2025 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 Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com