

ExxonMobil™ PP3155E5

Polypropylene Homopolymer

Product Description

ExxonMobil™ 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.

ExxonMobil PP3155E5 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	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific Europe North America
Features	<ul style="list-style-type: none"> Controlled Rheology Gas-fading Resistant High Flow Low Smoke Emission Narrow Molecular Weight Distribution
Uses	<ul style="list-style-type: none"> Fibers Industrial Applications Packaging Personal Care Spunbond Nonwovens
Appearance	<ul style="list-style-type: none"> Natural Color
Form(s)	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Fiber (Spinning) Extrusion Filament Extrusion
Revision Date	<ul style="list-style-type: none"> 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/cm ³	0.900 g/cm ³	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.

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

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