

ExxonMobil™ PP3155E5 Injection Molding

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"> Asia Pacific North America
Features	<ul style="list-style-type: none"> Good Processability No Intentionally Added Phthalates
Uses	<ul style="list-style-type: none"> Fibers Industrial Applications Medical/Healthcare Applications² 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"> Extrusion Filament Extrusion Spunbond Spunbond Nonwovens
Revision Date	<ul style="list-style-type: none"> 04/01/2021

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 2.0 in/min (51 mm/min)	5060 psi	34.9 MPa	ASTM D638
Elongation at Yield (2.0 in/min (51 mm/min))	11 %	11 %	ASTM D638
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)	208000 psi	1430 MPa	ASTM D790A
0.51 in/min (13 mm/min)	244000 psi	1680 MPa	ASTM D790B

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	0.46 ft-lb/in	25 J/m	ASTM D256A
Gardner Impact (-22°F (-30°C))	> 7.97 in-lb	> 0.900 J	ASTM D5420

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	202 °F	94.5 °C	ASTM D648

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	107	107	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.

² This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.

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

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