



ExxonMobil™ PP3155E5

Polypropylene Homopolymer

Product Description

A homopolymer resin designed for spunbond technology. The resin is particularly suited for excellent spinning with uniformity and consistency to enable robust operations for high quality fabrics. Contains stabilizer package suitable for nonwoven and filament products especially formulated for resistance to gas fading.

Key Features

1. Controlled Rheology
2. Gas-fading Resistant
3. High Flow
4. Low Smoke Emission
5. Narrow Molecular Weight Distribution

General

Availability ¹	<ul style="list-style-type: none"> • Asia Pacific
Uses	<ul style="list-style-type: none"> • Fibers • Industrial Applications • Packaging • Personal care • Spunbond Non-wovens
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) • Filament Extrusion • Extrusion
Revision Date	<ul style="list-style-type: none"> • 09/01/2018

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

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield 2.0 in/min (51 mm/min)	5020 psi	34.6 MPa	ASTM D638
Elongation at Yield (2.0 in/min (51 mm/min))	10 %	10 %	ASTM D638
Flexural Modulus – 1% Secant 0.050 in/min (1.3 mm/min)	201000 psi	1390 MPa	ASTM D790A
0.50 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))	0.638 ft.lb/in	34.1 J/m	ASTM D256A
Gardner Impact ² -20°F (-29°C), 0.125 in (3.18 mm)	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			ASTM D648
--	194 °F	90.0 °C	

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness (Shore D, 15 sec)	106	106	ASTM D785

Notes

Typical properties: these are not to be construed as specifications.

¹Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

²Geometry GC

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