

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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