

Product Datasheet



Exceed™ Flow PP3655E1

(Legacy name: Achieve™ Advanced PP3655E1)

Polypropylene Homopolymer

Product Description

Exceed™ Flow PP3655E1 is a high MFR homo polymer resin designed for spunbond nonwovens. The resin is particularly suited for excellent spinning for finer fiber, uniform, high quality fabrics. Formulated for application requiring low color and low gas fading discoloration. Produced with a catalyst system that does not include intentionally- added phthalate compounds. This product can be used for injection molding, compounding and others.

General

Availability ¹	<ul style="list-style-type: none"> Asia Pacific Europe
Features	<ul style="list-style-type: none"> Good Color Stability Good Processability No Intentionally Added Phthalates
Uses	<ul style="list-style-type: none"> Compounding Consumer Applications Fibers Medical/Healthcare Applications ² 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"> Compounding Fiber (Spinning) Extrusion Filament Extrusion Injection Molding
Revision Date	<ul style="list-style-type: none"> 01/31/2025

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	58 g/10 min	58 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)	4960 psi	34.2 MPa	ASTM D638
Elongation at Yield (2.0 in/min (51 mm/min))	9.0 %	9.0 %	ASTM D638
Flexural Modulus - 1% Secant (0.051 in/min (1.3 mm/min))	214000 psi	1480 MPa	ASTM D790A

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	0.39 ft-lb/in	21 J/m	ASTM D256A
Gardner Impact (73°F (23°C))	43.1 in-lb	4.87 J	ASTM D5420

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	127 °F	53.0 °C	ExxonMobil Method
Vicat Softening Temperature	306 °F	152 °C	ExxonMobil Method

Optical	Typical Value (English)	Typical Value (SI)	Test Based On
Haze	56.0 %	56.0 %	ASTM D1003

Legal Statement

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.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

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Notes

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

Reported data was generated using injection molded samples.

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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