ExxonMobil Signature Polymers

Exceed™ Flow PP3655E1

(Legacy name: AchieveTM Advanced PP3655E1)

Polypropylene Homopolymer

Product Description

Exceed™ Flow PP3655E1 is a high MFR homopolymer 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, thin wall injection molding (TWIM), compounding, and others.

General

Availability [1]	▪ Asia Pacific	▪ Europe	
Features	▪ ▪ Good Color Stability	▪ Good Processability ▪ No Intentionally Added Phthalates	
Uses	▪ Compounding ▪ Consumer Applications ▪ Fibers	▪ Medical/Healthcare Applications [2] ▪ Personal Care ▪ Spunbond Nonwovens	▪ Thin-walled Parts
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Compounding ▪ Fiber (Spinning) Extrusion	▪ Filament Extrusion ▪ Injection Molding	
Revision Date	▪ 05/20/2025		

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/cm³	0.900	g/cm³	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)	4960	psi	34.2	MPa	
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.

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