



Product Datasheet



Exceed[™] Tough PP3684 (Legacy name: Achieve[™] Advanced PP3684)

(Legacy name: Achieve™ Advanced PP3684) Polypropylene Homopolymer

Product Description

Exceed™ Tough PP3684 is a homopolymer resin designed for spunbond nonwovens. The resin is particularly suited for excellent spinning of uniform, high quality fabrics and allows for creative innovations in high loft spunbond applications. Formulated for applications requiring low color and low gas fading discoloration. Produced with a catalyst system that does not include intentionally-added phthalate compounds.

General					
, wanabiney	Africa & Middle East Asia Pacific		Europe North America		
Features	Good Processability	•	No Intentionally Added Phthalates		
Uses	 Personal Care 		Spunbond Nonwovens • Textile Applications		
Appearance	Natural Color				
Form(s)	Pellets				
Processing Method	Filament Extrusion		Spunbond Nonwovens		
Revision Date	11/13/2023				
Physical (1952) (2000) (2000)	Typical Value		Typical Value	1 1	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg		g/10 min		g/10 min	ASTM D1238
Density	0.900	g/cm³	0.900	g/cm³	ExxonMobil Method
Mechanical Tensile Strength at Yield	Typical Value	(English)	Typical Value	(SI)	Test Based On ASTM D638
2.0 in/min (51 mm/min)	5010	psi	34.5	MPa	
Elongation at Yield (2.0 in/min (51 mm/min)	9.4	%	9.4	%	ASTM D638
Flexural Modulus - 1% Secant (0.051 in/min (1.3 mm/min))	208000	psi	1430	MPa	ASTM D790A
Import	Tire is all Value	(Faclish)	Tue is all Value	(CI)	Test Based On
Impact Notched Izod Impact (73°F (23°C))	Typical Value	ft·lb/in	Typical Value	J/m	ASTM D256A
Gardner Impact (73°F (23°C))	24.7		2.79		ASTM D5420
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Peak Melting Temperature	322		161		ExxonMobil Method
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	131	°F	55.1	°C	ASTM D648B
Vicat Softening Temperature	310	°F	154	°C	ASTM D1525
Optical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Haze	51.4	%	51.4	%	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).

Notes

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

 Effective Date: 11/13/2023
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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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