

Achieve™ Advanced PP3684

Polypropylene Homopolymer

Product Description

Achieve™ Advanced 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

Availability ¹	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific 	<ul style="list-style-type: none"> Europe North America
Features	<ul style="list-style-type: none"> Good Processability 	<ul style="list-style-type: none"> No Intentionally Added Phthalates
Uses	<ul style="list-style-type: none"> Personal Care 	<ul style="list-style-type: none"> Spunbond Nonwovens Textile Applications
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"> Filament Extrusion 	<ul style="list-style-type: none"> Spunbond Nonwovens
Revision Date	<ul style="list-style-type: none"> 11/13/2023 	

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14 g/10 min	14 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)	5010 psi	34.5 MPa	ASTM D638
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

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	0.44 ft-lb/in	23 J/m	ASTM D256A
Gardner Impact (73°F (23°C))	24.7 in-lb	2.79 J	ASTM D5420

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Peak Melting Temperature	322 °F	161 °C	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.

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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