

Achieve™ Advanced PP0502E1

Polypropylene Homopolymer

Product Description

Achieve™ Advanced PP0502E1 is a polypropylene homopolymer resin that provides excellent stiffness and heat tolerance performance while maintaining easy processing in blown film. It has advantages as a blend component with polyethylene to produce films with outstanding mechanical properties and broad applicability. Values generated below are based on 1.0 mil (25.4 micron) film thickness.

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"> Excellent Processability 	<ul style="list-style-type: none"> High Heat Resistance High Stiffness
Applications	<ul style="list-style-type: none"> Blown Film Extrusion Food Packaging 	<ul style="list-style-type: none"> Heavy Duty Sacks Stand Up Pouches
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"> Blown Film 	
Revision Date	<ul style="list-style-type: none"> 12/17/2018 	

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Index (190°C/2.16 kg)	1.6 g/10 min	1.6 g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5 g/10 min	3.5 g/10 min	ASTM D1238
Density	0.900 g/cm ³	0.900 g/cm ³	ExxonMobil Method

Films	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	5600 psi	38.6 MPa	ExxonMobil Method
Tensile Strength at Yield TD	3840 psi	26.5 MPa	ExxonMobil Method
Tensile Strength at Break MD	11000 psi	75.9 MPa	ExxonMobil Method
Tensile Strength at Break TD	5830 psi	40.2 MPa	ExxonMobil Method
Elongation at Break MD	590 %	590 %	ExxonMobil Method
Elongation at Break TD	5.0 %	5.0 %	ExxonMobil Method
Secant Modulus MD - 1% Secant	221000 psi	1530 MPa	ExxonMobil Method
Secant Modulus TD - 1% Secant	205000 psi	1410 MPa	ExxonMobil Method
Elmendorf Tear Strength MD	5.0 g	5.0 g	ASTM D1922
Elmendorf Tear Strength TD	70 g	70 g	ASTM D1922

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Peak Melting Temperature	325 °F	163 °C	ExxonMobil Method

Optical	Typical Value (English)	Typical Value (SI)	Test Based On
Haze	> 30.0 %	> 30.0 %	ASTM D1003

Legal Statement

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

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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Processing Statement

Film (1 mil/25.4 micron) made from Achieve™ Advanced PP0502E1 resin on a 2.5 in (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a target melt temperature of 400–430°F (203–221°C), a 60 mil (1.52 mm) die gap at a rate of 15 lbs/hr/in (2.68 kg/hr/cm) die circumference.

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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