ExxonMobil

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

Features	▪ Excellent Processability	▪ High Heat Resistance	▪ High Stiffness
Applications	▪ Blown Film Extrusion ▪ Food Packaging	▪ Heavy Duty Sacks ▪ Stand Up Pouches	
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Blown Film		

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/cm³	0.900	g/cm³	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

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