Petrothene® GA501150X01

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

The Petrothene GA501 series of resins is pelletized liner low density polyethylene selected by customers for film extrusion applications that require excellent drawdown and toughness. These resins have excellent puncture resistance, elongation and heat seal strength. Typical applications include heavy duty shipping sacks, trash can liners, commercial and industrial packaging, as well as food and consumer packaging.

General Information			
Features	Perforation resistance Good stripping Good heat sealability Good toughness Compliance of Food Exposure		
Uses	Packaging Lining Bags Industrial application Food packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Film extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.918	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested [1]	25	µm	
secant modulus			ASTM D882
1% secant, MD: 25 µm, blown film	186	MPa	ASTM D882
1% secant, TD: 25 µm, blown film	193	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 25 µm, blown film	45.5	MPa	ASTM D882
TD: Broken, 25 µm, blown film	32.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 25 µm, blown film	580	%	ASTM D882
TD: Broken, 25 µm, blown film	730	%	ASTM D882
Dart Drop Impact (25 µm, Blown Film)	100	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922

MD: 25 µm, blown film	130	g	ASTM D1922
TD: 25 µm, blown film	330	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	107	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 µm, Blown Film)	40		ASTM D2457
Haze (25.4 µm, Blown Film)	20	%	ASTM D1003
Additional Information	Nominal Value		
Blow-up Ratio	2.5:1		
Extrusion	Nominal Value	Unit	
Melt Temperature	204 - 232	°C	
NOTE			
1.	Blow-Up Ratio: 2.5:1		

Recommended distributors for this material

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