Petrothene® GA501023

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			
Additive	Antiblock (5500 ppm) Slip (900 ppm)		
Features	Antiblocking Food Contact Acceptable Good Drawdown Good Heat Seal Good Toughness Puncture Resistant Slip		
Uses	Bags Food Packaging Industrial Applications Liners Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
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	
1% Secant, TD : 25 µm, Blown Film	193	MPa	
Tensile Strength			ASTM D882
MD : Break, 25 µm,Blown Film	45.5	MPa	
TD : Break, 25 µm,Blown Film	32.4	MPa	

Tensile Elongation			ASTM D882
MD : Break, 25 µm,Blown Film	580	%	
TD : Break, 25 µm,Blown Film	730	%	
Dart Drop Impact (25 µm, Blown Film)	100	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm, Blown Film	130	g	
TD : 25 µm, Blown Film	330	g	
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 to 232	°C	
NOTE			
1.	Blow-Up Ratio: 2.5:1		

Recommended distributors for this material

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