Petrothene® GA501022

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 (7000 ppm)		
	Slip (1350 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	

		ASTM D882
580	%	
730	%	
100	g	ASTM D1709A
		ASTM D1922
130	g	
330	g	
Nominal Value	Unit	Test Method
107	°C	ASTM D1525
Nominal Value	Unit	Test Method
40		ASTM D2457
20	%	ASTM D1003
Nominal Value		
2.5:1		
Nominal Value	Unit	
204 to 232	°C	
Blow-Up Ratio: 2.5:1		
	730 100 130 330 Nominal Value 107 Nominal Value 40 20 Nominal Value 2.5:1 Nominal Value 204 to 232	730 % 100 g 130 g 330 g Nominal Value Unit 107 °C Nominal Value Unit 40 20 % Nominal Value 2.5:1 Nominal Value Unit 204 to 232 °C

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