

Petrothene® GA501

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

The PETROTHENE GA 501 series of resins is pelletized linear low density polyethylene for film extrusion applications that require excellent drawdown and toughness. These resins have excellent puncture resistance, elongation and heat seal strength. Applications include heavy duty shipping sacks, prime liners, commercial and industrial packaging, as well as food and consumer packaging.

General Information			
Features	Food Contact Acceptable		
	Good Drawdown		
	Good Heat Seal		
	Good Toughness		
	Puncture Resistant		
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/cm ³	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	25	µm	ASTM D882
Secant Modulus			
1% Secant, MD : 25 µm	186	MPa	
1% Secant, TD : 25 µm	193	MPa	ASTM D882
Tensile Strength			
MD : Break, 25 µm	45.5	MPa	
TD : Break, 25 µm	32.4	MPa	ASTM D882
Tensile Elongation			
MD : Break, 25 µm	580	%	
TD : Break, 25 µm	730	%	ASTM D1709A
Dart Drop Impact (25 µm, Blown Film)	100	g	
Elmendorf Tear Strength			ASTM D1922

MD : 25 μm	130	g	
TD : 25 μm	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
Extrusion	Nominal Value	Unit	
Melt Temperature	204 to 232	°C	

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