

Petrothene® GA601030

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

The Petrothene GA601 series resins are pelletized linear low density polyethylenes selected by customers for applications that require maximum strength and toughness. These products offer excellent additive homogeneity, require no transfer equipment modification, and facilitate clean and safe handling. Typical applications include heavy duty shipping sacks, trash can liners, commercial and industrial packaging, as well as food and consumer packaging. The GA601 series resins offer enhanced film strength, drawdown, toughness and heat seal strength. In addition, these resins have excellent low temperature resistance for applications such as stretch film and frozen food packaging. The GA601 series resins can be purchased without additives or fully formulated with slip and antiblock.

General Information			
Features	Food Contact Acceptable		
	Good Drawdown		
	Good Heat Seal		
	Good Strength		
	Good Toughness		
Uses	Bags		
	Film		
	Food Packaging		
	Industrial Applications		
	Liners		
	Packaging		
	Stretch Wrap		
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	200	MPa	
1% Secant, TD : 25 µm	224	MPa	ASTM D882
Tensile Strength			
MD : Break, 25 µm	55.8	MPa	
TD : Break, 25 µm	42.1	MPa	ASTM D882
Tensile Elongation			

MD : Break, 25 µm	580	%	
TD : Break, 25 µm	700	%	
Dart Drop Impact (25 µm, Blown Film)	190	g	ASTM D1709A
Total Energy Impact (25 µm, Blown Film)	2.44	J	ASTM D4272
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	330	g	
TD : 25 µm	650	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	105	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 µm, Blown Film)	35		ASTM D2457
Haze (25.4 µm, Blown Film)	22	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	204 to 232	°C	

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