

Petrothene® GA601033

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			
Additive	Antiblock (6500 ppm) Slip (900 ppm)		
Features	Antiblocking Food Contact Acceptable Good Drawdown Good Heat Seal Good Strength Good Toughness Slip		
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	
Tensile Strength			ASTM D882
MD : Break, 25 µm	55.8	MPa	
TD : Break, 25 µm	42.1	MPa	
Tensile Elongation			ASTM D882
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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