Petrothene® GA601031

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)		
Features	Antiblocking 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/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	25	µm	
Secant Modulus			ASTM D882
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	

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China