

Petrothene

GA601

Linear Low Density Polyethylene
Film Extrusion Grade

Melt Index: 1.0 Density: 0.918



Applications

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.

Regulatory Status

GA601 series resins meet the requirements of the Food and Drug Administration 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food..." Specific limitations or conditions of use may apply. Contact your Equistar product safety representative for more information.

Processing Techniques

Specific recommendations for type of resin and extrusion conditions can be made only when the end use, required properties and processing equipment are known.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index (190/2.16)	1.0	g/10 min	D1238
Density	0.918	g/cc	D1505
Vicat Softening Point	105	°C	D1525
Film			
Gauge	1.0	mil	
Blow-up Ratio	2.5:1		
Haze	22	%	D1003
Gloss, 45°	35	units	D2457
Dart Drop Impact Strength, F ₅₀	190	g	D1709/A
Total Energy Dart Drop	1.8	ft-lbs	D4272
Tensile Strength @ Break MD (TD)	8,100 (6,100)	psi	D882
Elongation @ Break, MD (TD)	580 (700)	%	D882
1% Secant Modulus, MD (TD)	29,000 (32,500)	psi	D882
Elmendorf Tear, MD (TD)	325 (650)	g	D1922

Product	<u>GA601030</u>	<u>GA601031</u>	<u>GA601032</u>	<u>GA601033</u>
Slip (ppm)	None	None	1,350	900
Antiblock (ppm)	None	6,500	6,500	6,500