

Applications

The *Petrothene* GA601 series resins are pelletized linear low density polyethylenes for applications that require maximum strength and toughness. These products offer excellent additive homogeneity, require no transfer equipment modifications, and facilitate clean and safe handling. Applications include heavy duty shipping sacks, prime 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

The GA601 series resins meet the requirements of the Food and Drug Administration 21 CFR 177.1520, Subpart C, Item 3.1. This regulation allows the use of this olefin polymer in " ...articles or components or articles intended for use in contact with food." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information.

Processing Techniques

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Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index (190/2.16)	1.0	g/10 min	D 1238
Density	0.918	g/cc	D 1505
Vicat Softening Point	105	°C	D 1525
Film			
Gauge	1.0	mil	
Blow-up Ratio	2.5:1		
Haze	22	%	D 1003
Gloss, 45°	35	units	D 2457
Dart Drop Impact Strength, F ₅₀	190	g	D 1709/A
Total Energy Dart Drop	1.8	ft-lbs	D 4272
Tensile Strength @ Break MD (TD)	8,100 (6,100)	psi	D 882
Elongation @ Break, MD (TD)	580 (700)	%	D 882
1% Secant Modulus, MD (TD)	29,000 (32,500)	psi	D 882
Elmendorf Tear, MD (TD)	325 (650)	g	D 1922

Product	GA601030	GA601031	GA601032	GA601033
Slip	0	0	1350	900
Antiblock	0	6500	6500	6500

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Users should review the applicable Material Safety Data Sheet before handling the product.