

LyondellBasell Petrothene® GA601030 Linear Low Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Injection Molded

Material Notes:

ApplicationsPETROTHENE® GA 601 series are pelletized, linear low density polyethylenes for applications requiring 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. **Processing Techniques**Recommended processing conditions for the GA 601 series are a 400°-450°F melt temperature and a 1.5-3.01:1 blow-up ratio. Using proper techniques, this product can readily be drawn below 0.9 mil at optimum production rates. Specific recommendations for type of resin and extrusion conditions can be made only when the end use, required properties and processing equipment are known. For further suggestions, please contact your Equistar sales representative. **Regulatory Status**GA 601 series resins meet the requirements of the Food and Drug Administration regulation, 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 sales representative for more information. **Physical Properties**THE GA 601 series resins offer enhanced film strength, drawdown, toughness and heat seal strength. In addition, they have excellent low temperature resistance for applications such as stretch film and frozen food packaging. The GA 601 series resins can be purchased without additives, fully formulated with slip and antiblock or containing a processing aid.**Other Information**Blow-up ratio 2.5:1.This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-GA601030-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	ASTM D1505
Thickness	38.1 microns	1.50 mil	2.5:1 BUR
Melt Flow	1.0 g/10 min	1.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	550 %	550 %	ASTM D882
Film Elongation at Break, TD	625 %	625 %	ASTM D882
Dart Drop, Total Energy	2.44 J	1.80 ft-lb	ASTM D4272
Elmendorf Tear Strength MD	600 g	600 g	ASTM D1922
Elmendorf Tear Strength TD	900 g	900 g	ASTM D1922
Dart Drop Test	290 g	0.639 lb	F ₅₀ ; ASTM D1709A
Film Tensile Strength at Break, MD	36.5 MPa	5300 psi	ASTM D882
Film Tensile Strength at Break, TD	29.0 MPa	4200 psi	ASTM D882
1% Secant Modulus, MD	207 MPa	30000 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
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Haze	12 %	12 %	ASTM D1003
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Gloss	50 %	50 %	45°; ASTM D2457
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Descriptive Properties	Value	Comments
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Antiblock	None	
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Slip	None	
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