

LyondellBasell Petrothene[®] GA601031 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 DrugThis product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-GA601031-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
1% Secant Modulus, TD	238 MPa	34500 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	12 %	12 %	ASTM D1003

Optical Properties	Metric	English	Comments
			D2457
Descriptive Properties		Value	Comments
Antiblock		High	
Slip		None	

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