

## LyondellBasell Petrothene® GA501020 Linear Low Density Polyethylene

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

### Material Notes:

**Applications**PETROTHENE GA 501series of resins are pelletized linear low density polyethylene for film extrusion applications requiring excellent drawdown and toughness. These resins have excellent puncture resistance, elongation and heat seal strength. Applications include heavy duty shipping sacks, prime liners, commercial and industrial packaging, as well as food and consumer packaging. Processing TechniquesRecommended conditions are 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 0.90 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 StatusGA 501 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. GA 501 is available without additives or fully formulated with slip and antiblock additives. Other InformationBlow-Up ratio 2.1:1. This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Petrothene-GA501020-Linear-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-GA501020-Linear-Low-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in <sup>3</sup>	ASTM D1505
Thickness	38.1 microns	1.50 mil	2:1 BUR
Melt Flow	1.0 g/10 min	1.0 g/10 min	190/2.16; ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	600 %	600 %	ASTM D882
Film Elongation at Break, TD	760 %	760 %	ASTM D882
Elmendorf Tear Strength MD	160 g	160 g	ASTM D1922
Elmendorf Tear Strength TD	560 g	560 g	ASTM D1922
Dart Drop Test	145 g	0.320 lb	F <sub>50</sub> ; ASTM D1709A
Film Tensile Strength at Break, MD	40.0 MPa	5800 psi	ASTM D882
Film Tensile Strength at Break, TD	31.7 MPa	4600 psi	ASTM D882
1% Secant Modulus, MD	186 MPa	27000 psi	ASTM D638
1% Secant Modulus, TD	241 MPa	35000 psi	ASTM D638

Optical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Gloss	50 %	50 %	45°; ASTM D523

Descriptive Properties	Value	Comments
Antiblock	None	
Slip	None	

**Contact Songhan Plastic Technology Co.,Ltd.**

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