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Petrothene



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Linear Low Density Polyethylene Film Extrusion Grade Melt Index: 1.0 Density: 0.918

The <i>Petrothene</i> GA501 series of resins is pelletized liner low density polyethylene selected by customers for film extrusion applications that require excellent drawdown and toughness. These resins have excellent puncture resistance, elongation and heat seal strength. Typical applications include heavy duty shipping sacks, trash can liners, commercial and industrial packaging, as well as food and consumer packaging. GA501 is available without additives or fully formulated with slip and antiblock additives.								
The GA501 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 or 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.								
Using proper te production rate	chniques, thes s. Specific rec	e products ommenda	s can readily tions for type	be drawn l of resin ar	below 0.90 nd extrusio) mils at optim	num can be	
Property Melt Index (190/2.16) Base Resin Density Vicat Softening Point		Nominal Value 1.0 0.918 107		Units g/10 min g/cc °C	ASTM Test M D1238 D1505 D1525	Test Method D1238 D1505		
Film Gauge Blow-up Ratio Haze Gloss, 45° Dart Drop Impact Strength, F ₅₀ Tensile Strength @ Break, MD (TD) Elongation @ Break, MD (TD) 1% Secant Modulus, MD (TD) Elmendorf Tear, MD (TD)			1.0 2.5:1 20 40 100 6,600 (4,700) 580 (725) 27,000 (28,000) 125 (330)		mil % g psi % psi g	D1003 D523 D1709/ D882 D882 D638 D1922	D523 D1709/A D882 D882 D638	
Product Slip (ppm) Antiblock (ppm) PPA Product Slip (ppm) Antiblock (ppm) PPA	GA501020 None None None GA501150X01 None None None	None 7,000 None	21 GA5010 1,350 7,000 None	900 5,5) 00	GA501152 600 10,000 Present	GA501154 900 5,500 Present	
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Typical a include heavy duty shipping sacks, trash can liners, commercial and industrial packagi as food and consumer packaging. GA501 is available without additives or fully formulat and antiblock additives. The GA501 series resins meet the requirements of the Food and Drug Administration, 177.1520. This regulation allows the use of this olefin polymer in" articles or compon articles intended for use in contact with food" Specific limitations or conditions of use Contact your Equistar product safety representative for more information. Typical extrusion conditions are 400°- 450°F melt temperature and a 1.5-3.0:1 blow-up Using proper techniques, these products can readily be drawn below 0.90 mils at optim production rates. 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