

Producer: EQUISTAR CHEMICALS / THE UNITED STATES (U.S.A)

LLDPE GA501

Applications

The PETROTHENE GA 501 series of resins is pelletized linear low density polyethylene for film extrusion applications that require 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 Techniques

Recommended conditions are 400°-450°F melt temperature and a 1.5-3.0:1 blow-up ratio. Using proper techniques, these products 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.

Certification

The GA 501 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 sales representative for more information GA 501 is available without additives or fully formulated with slip and antiblock additives.

PROPERTY	TEST	UNIT	VALUE
Property			
Melt Index (190/2.16)	D 1238	g/10 min	1.0
Density	D 1505	g/cc	0.918
Vicat Softening Point	D 1525	°C	107
Film			
Gauge		mil	1.5
Blow-up Ratio			2.5:1
Haze	D 1003	%	20
Gloss, 45°	D 523		40
Dart Drop Impact Strength, F ₅₀	D 1709/A	g	100
Tensile Strength @ Break, MD (TD)	D 882	psi	6,600 (4,700)
Elongation @ Break, MD (TD)	D 882	%	580 (725)
1% Secant Modulus, MD (TD)	D 638	psi	27,000 (28,000)
Elmendorf Tear, MD (TD)	D 1922	g	125 (330)

Product	GA 501-020	GA 501-021	GA 501-022	GA 501-023	GA 501-025	GA 501-026
Slip	None	None	High	Medium	Very High	Low
Antiblock	None	High	High	Medium	High	High

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