

LyondellBasell Petrothene® GA503027 Linear Low Density Polyethylene (0.5 mil Film)

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

Material Notes:

ApplicationsGA 503 is a medium density, butene copolymer LLDPE resin with high draw for stiff, thin blown films. GA 503 contains an antioxidant package to minimize discoloration and eliminate die build-up. Other additive formulations may be available for your specific application. Contact your Equistar sales representative for additional information. **Processing Techniques**GA 503 provides high output at low melt temperatures and without high pressure, high torque or shear-induced melt fracture. For improved drawdown without bubble breaks, GA 503 can be blended with LDPE. GA 503 can be blended with high performance LLDPE grades to reduce torque and horsepower requirements. 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 503 series resins meet the requirements of the Food and Drug Administration regulation, 21 CFR 177.1520, Subpart C, Item 3.1. 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. **Other Information**0.5 Film thickness. **Physical Properties**Testing was performed on film produced at a 2.5:1 BUR, 360°F (182°C) melt temperature, using an 8" die with 0.025" die gap, at 150 lb/hr. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-GA503027-Linear-Low-Density-Polyethylene-05-mil-Film.php

Physical Properties	Metric	English	Comments
Density	0.925 g/cc	0.0334 lb/in ³	ASTM D1505
Thickness	12.7 microns	0.500 mil	
Melt Flow	3.5 g/10 min	3.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	500 %	500 %	ASTM D882
Film Elongation at Break, TD	630 %	630 %	ASTM D882
Elmendorf Tear Strength MD	40 g	40 g	ASTM D1922
Elmendorf Tear Strength TD	180 g	180 g	ASTM D1922
Dart Drop Test	30.0 g	0.0662 lb	F ₅₀ , Estimated from TEDD value of 0.3 ft-lbs. For standard dart and 26" drop height.; ASTM D1709
Film Tensile Strength at Break, MD	9.65 MPa	1400 psi	ASTM D882
Film Tensile Strength at Break, TD	7.24 MPa	1050 psi	ASTM D882
1% Secant Modulus, MD	252 MPa	36600 psi	ASTM D638

Mechanical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Haze	25 %	25 %	ASTM D1003
Gloss	60 %	60 %	ASTM D2457

Descriptive Properties	Value	Comments
Antiblock	High	
Slip	High	

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