

## LyondellBasell Petrothene® GA502022 Linear Low Density Polyethylene

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

### Material Notes:

**Applications**The PETROTHENE GA 502 series of resins are pelletized linear low density polyethylene for film extrusion applications requiring excellent drawdown and toughness. These pelletized products offer excellent additive homogeneity, require no transfer equipment modifications and facilitate clean and safe storage and handling. They can be used in either blown or cast film extrusion. GA 502-024 is specifically formulated with extra antioxidant for use in cast film. It contains no other additives. **Processing Techniques**GA 502 series resins exhibit excellent drawdown characteristics. Recommended conditions are 375-425°F melt temperature and a 1.5-3.0:1 blow-up ratio. Using proper techniques, these products can readily be drawn below .5 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 502 meets 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**Blow-Up ratio 2.1:1, Anti-Block level, ppm, High. This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Petrothene-GA502022-Linear-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-GA502022-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	2.0 g/10 min	2.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	750 %	750 %	ASTM D882
Film Elongation at Break, TD	800 %	800 %	ASTM D882
Coefficient of Friction	<= 0.20	<= 0.20	ASTM D1894
Elmendorf Tear Strength MD	170 g	170 g	ASTM D1922
Elmendorf Tear Strength TD	400 g	400 g	ASTM D1922
Dart Drop Test	120 g	0.265 lb	F <sub>50</sub> ; ASTM D1709A
Film Tensile Strength at Break, MD	33.8 MPa	4900 psi	ASTM D882
Film Tensile Strength at Break, TD	24.8 MPa	3600 psi	ASTM D882
1% Secant Modulus, MD	221 MPa	32000 psi	ASTM D638
1% Secant Modulus, TD			ASTM D638

Mechanical Properties	248 MPa Metric	36000 psi English	Comments
Optical Properties	Metric	English	Comments
Haze	12 %	12 %	ASTM D1003
Gloss	60 %	60 %	ASTM D523

Descriptive Properties	Value	Comments
Antiblock	High	
Slip Level	High	

## Contact Songhan Plastic Technology Co.,Ltd.

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