

## LyondellBasell Petrothene® LP510300 High Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Film Grade

### Material Notes:

**Applications**PETROTHENE LLP 5103-00 is a copolymer resin designed for blown film applications. This resin offers high stiffness, excellent appearance and bubble stability and good drawdown. It is recommended for merchandise bags, and multi-wall sack liners and barrier sheeting. It is also useful as a blend component for improved stiffness and machineability.**Regulatory Status**LP 5103-00 meets the requirements of 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. **Processing Techniques**Specific recommendations for processing LP 5103-00 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative. The physical properties are typical values and are not to be construed as specific product limits. Film properties obtained on 1.25 mil film produced using a 2.2:1 blow-up ratio. This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Petrothene-LP510300-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-LP510300-High-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in <sup>3</sup>	ASTM D1505
Water Vapor Transmission	6.60 g/m <sup>2</sup> /day	0.425 g/100 in <sup>2</sup> /day	ASTM F372
Oxygen Transmission Rate	2900 cc/m <sup>2</sup> /day	187 cc/100 in <sup>2</sup> /day	ASTM D3985
Thickness	31.8 microns	1.25 mil	2.2:1 BUR
Melt Flow	0.33 g/10 min	0.33 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	450 %	450 %	ASTM D882
Film Elongation at Break, TD	600 %	600 %	ASTM D882
Dart Drop Test	40.0 g	0.0882 lb	ASTM D1709
Film Tensile Strength at Break, MD	55.2 MPa	8000 psi	ASTM D882
Film Tensile Strength at Break, TD	26.2 MPa	3800 psi	ASTM D882
1% Secant Modulus, MD	772 MPa	112000 psi	1% Secant; ASTM D882
1% Secant Modulus, TD	1100 MPa	160000 psi	1% Secant; ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	126 Â°C	259 Â°F	ASTM D1525

## Contact Songhan Plastic Technology Co.,Ltd.

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