

## LyondellBasell Alathon® L4907 High Density Polyethylene

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

### Material Notes:

**Applications**ALATHON L 4907 is a high molecular weight high density copolymer with broad dimodal molecular weight distribution. This resin exhibits high density and stiffness and is designed for grooved feed and smooth bore equipment. Typical applications include merchandise bags, grocery sacks, roll stock and produce bags.**Regulatory Status**L 4907 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 L 4907 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.**Typical Extrusion Conditions:** BUR=4:1, Neck Height=8 Die Diameters, 0.5 Mil Film, Melt Temperature- 390-410°F(199-210°C)This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Alathon-L4907-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-L4907-High-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in <sup>3</sup>	ASTM D1505
Thickness	12.7 microns	0.500 mil	4:1 BUR; Neck Height = 8 Die Diameters
Melt Flow	0.075 g/10 min	0.075 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	31.0 MPa	4500 psi	ASTM D882
Film Tensile Strength at Yield, TD	26.9 MPa	3900 psi	ASTM D882
Film Elongation at Break, MD	380 %	380 %	ASTM D882
Film Elongation at Break, TD	420 %	420 %	ASTM D882
Dart Drop, Total Energy	2.71 J	2.00 ft-lb	ASTM D3420
Elmendorf Tear Strength MD	11 g	11 g	ASTM D1922
Elmendorf Tear Strength TD	50 g	50 g	ASTM D1922
Film Tensile Strength at Break, MD	57.9 MPa	8400 psi	ASTM D882
Film Tensile Strength at Break, TD	46.9 MPa	6800 psi	ASTM D882
1% Secant Modulus, MD	1070 MPa	155000 psi	ASTM D822
1% Secant Modulus, TD	1050 MPa	152000 psi	ASTM D822

Processing Properties	Metric	English	Comments
Melt Temperature	199 - 210 Â°C	390 - 410 Â°F	Typical Extruder

## Contact Songhan Plastic Technology Co.,Ltd.

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