

## LyondellBasell Alathon® L5485 High Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE

### Material Notes:

**Applications**ALATHON L 5485 is a medium molecular weight, high density polyethylene copolymer for use in blown film applications. Typical applications include general purpose HDPE film applications such as overwrap, laminating base films, food packaging, and oriented tapes.  
**Regulatory Status**ALATHON L 5485 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 ALATHON L 5485 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative. This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Alathon-L5485-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-L5485-High-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in <sup>3</sup>	ASTM D1505
Thickness	50.8 microns	2.00 mil	
Melt Flow	0.85 g/10 min	0.85 g/10 min	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	25.5 MPa	3700 psi	ASTM D882
Film Tensile Strength at Yield, TD	26.2 MPa	3800 psi	ASTM D882
Film Elongation at Break, MD	700 %	700 %	ASTM D882
Film Elongation at Break, TD	750 %	750 %	ASTM D882
Elmendorf Tear Strength MD	32 g	32 g	ASTM D1922
Elmendorf Tear Strength TD	1000 g	1000 g	ASTM D1922
Elmendorf Tear Strength, MD	0.630 g/micron	16.0 g/mil	based on 2 mil film; ASTM D1922
Elmendorf Tear Strength, TD	19.7 g/micron	500 g/mil	based on 2 mil film; ASTM D1922
Film Tensile Strength at Break, MD	54.5 MPa	7900 psi	ASTM D882
Film Tensile Strength at Break, TD	23.4 MPa	3400 psi	ASTM D882
1% Secant Modulus, MD	931 MPa	135000 psi	ASTM E111
1% Secant Modulus, TD	1240 MPa	180000 psi	ASTM E111

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

## Contact Songhan Plastic Technology Co.,Ltd.

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