

Alathon® L5885

High Density (MMW) Polyethylene

LyondellBasell Industries

Technical Data

Product Description

Applications:

ALATHON L5885 is a medium molecular weight high density polyethylene homopolymer for use in blown film applications. Typical applications include those with low WVTR requirements.

Regulatory Status:

L5885 meets the requirements of the 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.

General

Material Status	• Commercial: Active	
Literature ¹	• Processing - Mold Shrink (English) • Processing - Polyolefin Injection Molding Guide (English) • Processing - Start-Up Guide (English) • Technical Datasheet (English)	
Search for UL Yellow Card	• LyondellBasell Industries • Alathon®	
Availability	• Asia Pacific • Europe	• North America • South America
Features	• Food Contact Acceptable	• Medium Molecular Weight
Uses	• Film	
Agency Ratings	• FDA 21 CFR 177.1520 ²	
Forms	• Pellets	
Processing Method	• Blown Film	

Physical	Nominal Value Unit	Test Method
Density	0.958 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.85 g/10 min	ASTM D1238

Films	Nominal Value Unit	Test Method
Film Thickness - Tested	51 µm	
Secant Modulus		ASTM D882
MD	938 MPa	
TD	1270 MPa	
Tensile Strength		ASTM D882
MD: Yield	25.5 MPa	
TD: Yield	26.2 MPa	
MD: Break	54.5 MPa	
TD: Break	23.4 MPa	
Tensile Elongation		ASTM D882
MD: Break	700 %	
TD: Break	750 %	
Elmendorf Tear Strength		ASTM D1922
MD	30 g	
TD	900 g	

Additional Information

The value listed as Secant Modulus MD/TD ASTM D882, was tested in accordance with ASTM E111.

Extrusion	Nominal Value Unit
Melt Temperature	199 to 210 °C