

# Alathon® L5885

High Density (MMW) Polyethylene  
LyondellBasell Industries

## Message:

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 Information			
Features	Compliance of Food Exposure Medium molecular weight		
Uses	Films		
Agency Ratings	FDA 21 CFR 177.1520 2		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm <sup>3</sup>	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	ASTM D882
TD	1270	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	25.5	MPa	ASTM D882
TD: Yield	26.2	MPa	ASTM D882
MD: Fracture	54.5	MPa	ASTM D882
TD: Fracture	23.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	700	%	ASTM D882
TD: Fracture	750	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD	30	g	ASTM D1922
TD	900	g	ASTM D1922
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 - 210	°C
Extrusion instructions		

Typical Extrusion Conditions:2.0 mil Blown FilmBlow-up Ratio: 2.5:1Die Gap: 60 mil

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

