

# Alathon® L5845

High Density (MMW) Polyethylene  
LyondellBasell Industries

Message:

ALATHON L5845 is a medium molecular weight high density homopolymer for use in blown film applications. Typical applications include paper replacement, coextrusions, slit tape, and laminations.

General Information	
Features	Homopolymer
	Compliance of Food Exposure
	Medium molecular weight
Uses	Films
	Laminate
	Strap
Agency Ratings	FDA 21 CFR 177.1520
Forms	Particle
Processing Method	Blow film
	Co-extrusion molding

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)	0.45	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
MD	924	MPa	ASTM D882
TD	1270	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	26.2	MPa	ASTM D882
TD: Yield	26.9	MPa	ASTM D882
MD: Fracture	54.5	MPa	ASTM D882
TD: Fracture	31.7	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	750	%	ASTM D882
TD: Fracture	850	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD	22	g	ASTM D1922
TD	1200	g	ASTM D1922
Extrusion	Nominal Value	Unit	

Melt Temperature	199 - 210	°C
Extrusion instructions		


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

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## Recommended distributors for this material

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