

# Alathon® L5645

High Density Polyethylene  
LyondellBasell Industries

## Message:

Alathon L5645 is a medium molecular weight, high density polyethylene homopolymer 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.

General Information			
Features	Homopolymer		
	Compliance of Food Exposure		
	General		
	Medium molecular weight		
Uses	Blown Film		
	Packaging		
	Films		
	Strap		
	Food packaging		
	General		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.959	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.54	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
	945		
Secant Modulus - MD (51 µm, Blown Film)	1260	MPa	ASTM E111
Tensile Strength			ASTM D882
MD: Yield, 51 µm, blown film	27.6	MPa	ASTM D882
MD: Broken, 51 µm, blown film	52.4	MPa	ASTM D882
	31.7		
TD: Broken, 51 µm, blown film	24.1	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Broken, 51 μm, blown film	550	%	ASTM D882
TD: Broken, 51 μm, blown film	500	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD: 51 μm, blown film	31	g	ASTM D1922
TD: 51 μm, blown film	1700	g	ASTM D1922

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