

Alathon® L5485

High Density (MMW) Polyethylene
LyondellBasell Industries

Message:

ALATHON L5485 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.

General Information			
Features	Copolymer		
	Compliance of Food Exposure		
	Medium molecular weight		
Uses	Packaging		
	Films		
	Laminate		
	Strap		
	Food packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.954	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
secant modulus			ASTM D882
MD	931	MPa	ASTM D882
TD	1240	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	32	g	ASTM D1922
TD	1000	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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