

# Alathon® L5005

High Density (HMW) Polyethylene  
LyondellBasell Industries

Message:

Alathon L5005 is a high molecular weight high density copolymer that provides broad bimodal molecular weight distribution, high stiffness and good heat seal response and strength. L5005 is selected by customers for use in merchandise bags, grocery sacks, trash can liners, produce bags and roll stock.

General Information			
Features	Rigidity, high		
	High molecular weight		
	Copolymer		
	Good strength		
	Good heat sealability		
	Compliance of Food Exposure		
	Medium wide molecular weight distribution		
Uses	Lining		
	Bags		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.060	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
MD	945	MPa	ASTM D882
TD	1050	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	34.5	MPa	ASTM D882
TD: Yield	29.0	MPa	ASTM D882
MD: Fracture	84.1	MPa	ASTM D882
TD: Fracture	57.2	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	320	%	ASTM D882
TD: Fracture	390	%	ASTM D882
Dart Drop Impact	340	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	11	g	ASTM D1922

Extrusion instructions


Typical Process Condition Ranges  
Blow-up Ratio: 3.5 to 4.5:1  
Neck Height: 6 to 9 Die Diameters  
Die Gap (nominal): 0.040 to 0.050 in  
Tower Height: Relatively Short  
Output: 10 to 12 lb/hr/in of die

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Recommended distributors for this material

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