Alathon® L5906

High Density (HMW) Polyethylene LyondellBasell Industries

Message:

Alathon L5906 is a high molecular weight high density polyethylene homopolymer with a broad bimodal molecular weight distribution. This resin exhibits excellent stiffness, very high tensile strength, and low gels. L5906 is selected by customers for use in draw tapes and paper replacement applications as well as other mono-and multi-layer films requiring both stiffness and toughness.

General Information					
Features	Low speed solidification crystal point				
	Rigid, good				
	High molecular weight				
	High tensile strength				
	Homopolymer				
	Good toughness				
	Compliance of Food Exposure				
	Bimodal molecular weight distribution				
Uses	Films				
	Strap				
Agency Ratings	FDA 21 CFR 177.1520				
Forms	Particle				
Processing Method	Film extrusion				
Physical	Nominal Value	Unit	Test Method		
Density	0.960	g/cm³	ASTM D1505		
Melt Mass-Flow Rate (MFR) (190°C) kg)	/2.16 0.075	g/10 min	ASTM D1238		
Films	Nominal Value	Unit	Test Method		
Film Thickness - Tested	20	μm			
secant modulus		<u> </u>	ASTM D882		
MD : 20 μm	1240	MPa	ASTM D882		
TD : 20 µm	1300	MPa	ASTM D882		
Tensile Strength			ASTM D882		
MD: Yield, 20 μm	40.0	MPa	ASTM D882		
TD: Yield, 20 µm	35.9	MPa	ASTM D882		
MD: Break, 20 μm	88.3	MPa	ASTM D882		
TD: Break, 20 µm	68.9	MPa	ASTM D882		
Tensile Elongation			ASTM D882		
MD: Break, 20 μm	340	%	ASTM D882		
TD: Break, 20 µm	340	%	ASTM D882		

Dart Drop Impact ¹ (20 μm)	390	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 20 μm	20	g	ASTM D1922
TD : 20 μm	60	g	ASTM D1922
Extrusion instructions			

Film Data Obtained Under the Following Extrusion Conditions: Alpine 200 mm 3 Layer Die (40/35/25); 3 Extruders: 65 mm / 75 mm / 50 mm; Die Gap = 1.5 mm; Film Thickness = 0.8 mil; 500 lbs/ hr; Internal Bubble Cooling; Neck Height = 8 x DD; Blow Up Ratio = 4:1

NOTE	
1	fro.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

