

Alathon® L4903

高密度 (HMW) 聚乙烯

LyondellBasell Industries

Technical Data

产品说明

Alathon L4903 is a high molecular weight high density copolymer with broad bimodal molecular weight distribution. This resin exhibits excellent machine direction tear in an HMW-HD resin as well as low gel levels. Typical applications include trash can liners and products requiring incorporation of PCR.

总体

特性	<ul style="list-style-type: none"> • 低速凝固晶点 • 高分子量 	<ul style="list-style-type: none"> • 共聚物 • 良好的撕裂强度 	<ul style="list-style-type: none"> • 食品接触的合规性 • 双峰型分子量分布
用途	<ul style="list-style-type: none"> • 薄膜 	<ul style="list-style-type: none"> • 衬里 	
机构评级	<ul style="list-style-type: none"> • FDA 21 CFR 177.1520 		
形式	<ul style="list-style-type: none"> • 粒子 		
加工方法	<ul style="list-style-type: none"> • 薄膜挤出 		

物理性能	额定值 (英制)	额定值 (公制)	测试方法
密度	0.949 g/cm ³	0.949 g/cm ³	ASTM D1505
熔流率 (熔体流动速率) (190°C/2.16 kg)	0.027 g/10 min	0.027 g/10 min	ASTM D1238
薄膜	额定值 (英制)	额定值 (公制)	测试方法
薄膜厚度 - 经测试	0.50 mil	13 µm	
割线模量			ASTM D882
MD : 0.50 mil (13 µm)	144000 psi	993 MPa	
TD : 0.50 mil (13 µm)	148000 psi	1020 MPa	
抗张强度			ASTM D882
MD : 屈服, 0.50 mil (13 µm)	5400 psi	37.2 MPa	
TD : 屈服, 0.50 mil (13 µm)	4100 psi	28.3 MPa	
MD : 断裂, 0.50 mil (13 µm)	11600 psi	80.0 MPa	
TD : 断裂, 0.50 mil (13 µm)	7600 psi	52.4 MPa	
伸长率			ASTM D882
MD : 断裂, 0.50 mil (13 µm)	330 %	330 %	
TD : 断裂, 0.50 mil (13 µm)	410 %	410 %	
落锤冲击 ³ (0.50 mil (13 µm))	230 g	230 g	ASTM D1709
埃尔曼多夫抗撕强度			ASTM D1922
MD : 0.50 mil (13 µm)	10 g	10 g	
TD : 0.50 mil (13 µm)	60 g	60 g	

挤压说明

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 = 0.5 mil; 500 lbs/ hr; Internal Bubble Cooling; Neck Height = 8 x DD; Blow Up Ratio = 4:1