

Alathon® L4907

High Density (HMW) Polyethylene
LyondellBasell Industries

Message:

ALATHON L 4907 is a high molecular weight high density copolymer with broad bimodal molecular weight distribution. This resin exhibits high density and stiffness and is designed for grooved feed and smooth bore equipment. Typical applications include merchandise bags, grocery sacks, roll stock and produce bags.

General Information			
Features	Rigidity, high		
	High molecular weight		
	Copolymer		
	Compliance of Food Exposure		
	Medium wide molecular weight distribution		
Uses	Films		
	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 ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.075	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
MD	951	MPa	ASTM D882
TD	1140	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	34.5	MPa	ASTM D882
TD: Yield	28.3	MPa	ASTM D882
MD: Fracture	82.0	MPa	ASTM D882
TD: Fracture	53.1	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	320	%	ASTM D882
TD: Fracture	500	%	ASTM D882
Dart Drop Impact	260	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	9.0	g	ASTM D1922
TD	97	g	ASTM D1922

Extrusion instructions

Typical Process Conditions Blow-up Ratio: 4:1 Neck Height: 8 die diameters 0.5 mil film

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