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# **Technical Data Sheet**

# Alathon L4907

High Molecular Weight High Density Polyethylene

# lyondellbasell

## **Product Description**

*Alathon* L4907 is a high molecular weight high density copolymer with broad bimodal molecular weight distribution. This resin exhibits high density and stiffness and is selected by customers for use in grooved feed and smooth bore equipment. Typical applications include merchandise bags, grocery sacks, roll stock and produce bags.

# **Regulatory Status**

For regulatory compliance information, see *Alathon* L4907 <u>Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS)</u>.

Status Commercial: Active

Availability North America

**Application** Bags & Pouches; Can Liners; Retail Carryout Bags; Specialty Film

Market Flexible Packaging

Processing Method Blown Film

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical	Value	OTING	Value	OTING	TOSTIVICUIO
Melt Flow Rate, (190 °C/2.16 kg)	0.075	g/10 min	0.075	g/10 min	ASTM D1238
Density, (23 °C)	0.949			g/cm <sup>3</sup>	ASTM D1505
Film		<u> </u>		9	
Dart Drop Impact Strength, F50	260	g	260	g	ASTM D1709
Tensile Strength at Break					
MD	11900	psi	82.0	MPa	ASTM D882
TD	7700	psi	53.1	MPa	ASTM D882
Tensile Strength at Yield					
MD	5000	psi	34.5	MPa	ASTM D882
TD	4100	psi	28.3	MPa	ASTM D882
Tensile Elongation at Break					
MD	320	%	320	%	ASTM D882
TD	500	%	500	%	ASTM D882
Secant Modulus					
MD	138000	psi	952	MPa	ASTM D882
TD	166000	psi	1140	MPa	ASTM D882
Elmendorf Tear Strength					
MD	9	g	9	g	ASTM D1922
TD	97	g	97	g	ASTM D1922

### **Notes**

Film data obtained from sample produced on an Alpine 200 mm line equipped with a three layer die (40/35/25), three extruders (65 mm/75 mm/50 mm), internal bubble cooling, die gap of 1.5 mm, neck height of 8 x DD, blow up ratio of 4:1, film thickness of 0.8 mil and operating at 500 lbs/hr.

These are typical property values not to be construed as specification limits.