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# **Technical Data Sheet**

## Alathon L5906

High Molecular Weight High Density Polyethylene



#### **Product Description**

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 monoand multi-layer films requiring both stiffness and toughness.

### **Regulatory Status**

For regulatory compliance information, see *Alathon* L5906 <u>Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS)</u>.

Status Commercial
Availability North America

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

Market Flexible Packaging

Processing Method Blown Film

Nominal Value	English Units	Nominal Value	SI Units	Test Method
74140	<u> </u>	Value	<u> </u>	1 Oot Moulou
0.075	g/10 min	0.075	g/10 min	ASTM D1238
				ASTM D1505
390	g	390	g	ASTM D1709
12800	psi	88.3	MPa	ASTM D882
10000	psi	68.9	MPa	ASTM D882
5800	psi	40.0	MPa	ASTM D882
5200	psi	35.9	MPa	ASTM D882
340	%	340	%	ASTM D882
340	%	340	%	ASTM D882
180000	psi	1240	MPa	ASTM D882
189000	psi	1300	MPa	ASTM D882
20	g	20	g	ASTM D1922
60	g	60	g	ASTM D1922
	\$\begin{align*} Value & 0.075 & 0.959 & 390 & 12800 & 10000 & 5800 & 5200 & 340 & 340 & 340 & 180000 & 189000 & 20 & 20 & 20 & 20 & 20 & 20 & 20	Value Units  0.075 g/10 min 0.959 g/cm³  390 g  12800 psi 10000 psi 5200 psi 5200 psi 340 % 340 %  180000 psi 189000 psi	Value         Units         Value           0.075         g/10 min         0.075           0.959         g/cm³         0.959           390         g         390           12800         psi         88.3           10000         psi         68.9           5800         psi         40.0           5200         psi         35.9           340         %         340           340         %         340           180000         psi         1240           189000         psi         1300	Value         Units         Value         Units           0.075         g/10 min         0.075         g/10 min           0.959         g/cm³         0.959         g/cm³           390         g         390         g           12800         psi         88.3         MPa           10000         psi         68.9         MPa           5800         psi         40.0         MPa           5200         psi         35.9         MPa           340         %         340         %           340         %         340         %           180000         psi         1240         MPa           189000         psi         1300         MPa

#### **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.