

## Technical Data Sheet

### Alathon L4907



High Molecular Weight High Density Polyethylene

#### 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.

<b>Application</b>	Bags & Pouches; Can Liners; Retail Carryout Bags; Specialty Film
<b>Market</b>	Flexible Packaging
<b>Processing Method</b>	Blown Film

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
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>	0.949	g/cm <sup>3</sup>	ASTM D1505
<b>Film</b>					
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.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

© LyondellBasell Industries Holdings, B.V. 2018

## Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

## Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.