

Technical Data Sheet



Alathon L5485

High Density Polyethylene

Product Description

Alathon L5485 is a medium molecular weight, high density polyethylene copolymer for use in blown film applications. Typical applications include general-purpose HDPE film applications such as overwrap, laminating base films, food packaging and oriented tapes.

Regulatory Status

For regulatory compliance information, see [Alathon L5485 Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Bags & Pouches; Food Packaging Film; Lamination Film; Secondary Packaging
Market	Flexible Packaging
Processing Method	Blown Film
Attribute	General Purpose; Good Organoleptic Properties; High Density; Low Gel

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	0.85	g/10 min	0.85	g/10 min	ASTM D1238
Density, (23 °C)	0.954	g/cm ³	0.954	g/cm ³	ASTM D1505
Film					
Tensile Strength at Break					
MD	7900	psi	54.5	MPa	ASTM D882
TD	3400	psi	23.4	MPa	ASTM D882
Tensile Strength at Yield					
MD	3700	psi	25.5	MPa	ASTM D882
TD	3800	psi	26.2	MPa	ASTM D882
Tensile Elongation at Break					
MD	700	%	700	%	ASTM D882
TD	750	%	750	%	ASTM D882
Secant Modulus					
MD	117000	psi	810	MPa	ASTM D882
TD	153000	psi	1050	MPa	ASTM D882
Elmendorf Tear Strength					
MD	36	g	36	g	ASTM D1922
TD	1000	g	1000	g	ASTM D1922



Notes

Data obtained from 2.0 mil film produced on a blown film line with a 60 mil die gap, 2.5:1 BUR, and 390-410 °F (199-210 °C) melt extrusion temperature.

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. 2026

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.

