

Technical Data Sheet



Alathon L5845

High Density Polyethylene

Product Description

Alathon L5845 is a medium molecular weight high density homopolymer for use in blown film applications. Typical applications include paper replacement, coextrusions, slit tape, and laminations.

Regulatory Status

For regulatory compliance information, see Alathon L5845 [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial
Availability	North America
Application	Bags & Pouches; Barrier Film; Food Packaging Film; Lamination Film; Nets
Market	Flexible Packaging
Processing Method	Blown Film; Cast Film; Tapes & Raffia
Attribute	General Purpose; Good Abrasion Resistance; Good Organoleptic Properties; High Density; High Stiffness; Low Gel

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	0.45	g/10 min	0.45	g/10 min	ASTM D1238
Density, (23 °C)	0.958	g/cm³	0.958	g/cm³	ASTM D1505
Film					
Tensile Strength at Break					
MD	7900	psi	54.5	MPa	ASTM D882
TD	4600	psi	31.7	MPa	ASTM D882
Tensile Strength at Yield					
MD	3800	psi	26.2	MPa	ASTM D882
TD	3900	psi	26.9	MPa	ASTM D882
Tensile Elongation at Break					
MD	750	%	750	%	ASTM D882
TD	850	%	850	%	ASTM D882
Secant Modulus					
MD	134000	psi	925	MPa	ASTM D882
TD	184000	psi	1270	MPa	ASTM D882
Elmendorf Tear Strength					
MD	25	g	25	g	ASTM D1922
TD	1200	g	1200	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/>.

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