Technical Data Sheet

Alathon L4434

High Density Polyethylene

Product Description

Alathon L4434 is a medium molecular weight high density copolymer for use in blown film applications. Typical applications include blown film over pouches.

Regulatory Status

For regulatory compliance information, see *Alathon* L4434 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial
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)	0.34	g/10 min	0.34	g/10 min	ASTM D1238
Density, (23 °C)	0.944	g/cm³	0.944	g/cm³	ASTM D1505
Film					
Tensile Strength at Break					
MD	7450	psi	51.4	MPa	ASTM D882
TD	6700	psi	46.2	MPa	ASTM D882
Tensile Strength at Yield					
MD	3200	psi	22.1	MPa	ASTM D882
TD	4000	psi	27.6	MPa	ASTM D882
Tensile Elongation at Break					
MD	590	%	590	%	ASTM D882
TD	850	%	850	%	ASTM D882
Secant Modulus					
MD	98500	psi	679	MPa	ASTM D882
TD	132000	psi	910	MPa	ASTM D882
Elmendorf Tear Strength					
MD	49	g	49	g	ASTM D1922
TD	1100	g	1100	g	ASTM D1922

Manufacturer website: https://www.lyondellbasell.com/en/

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 410-450 °F (210-232 °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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