Technical Data Sheet

Alathon L4550

High Density Polyethylene

Product Description

Alathon L4550 is a medium molecular weight high density copolymer with a narrow molecular weight distribution. L4550 inherently has very low gels and is used for monofilament, slit tape and high speed orientation processes. Typical applications include specialty films, packaging of agriculture products, protective netting for the agriculture and building industry, and netting for food applications.

Regulatory Status

For regulatory compliance information, see *Alathon* L4550 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial
Availability	North America
Application	Agriculture Film; Bags & Pouches; Nets; Raffia/Tapes/Strapping; Secondary Packaging
Market	Flexible Packaging
Processing Method	Blown Film; Tapes & Raffia
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)	0.45	g/10 min	0.45	g/10 min	ASTM D1238
(190 °C/5.0 kg)	1.75	g/10 min	1.75	g/10 min	ASTM D1238
(190 °C/21.6 kg)	20.3	g/10 min	20.3	g/10 min	ASTM D1238
Density, (23 °C)	0.945	g/cm³	0.945	g/cm³	ASTM D1505
Film					
Tensile Strength at Break, MD	8600	psi	59.3	MPa	ASTM D882
Tensile Strength at Yield, MD	3300	psi	22.8	MPa	ASTM D882
Tensile Elongation at Break, MD	750	%	750	%	ASTM D882
Secant Modulus, MD	99400	psi	685	MPa	ASTM D882

Notes

Data obtained from 2.0 mil film produced on a blown film line with a 60 mil die gap, 2.2:1 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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