Technical Data Sheet

Alathon M6020SB

High Density Polyethylene

Product Description

Alathon M6020SB is a medium molecular weight high density polyethylene homopolymer for use in blown film applications. Typical applications include those with low WVTR requirements.

Regulatory Status

For regulatory compliance information, see *Alathon* M6020SB Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

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

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	2.0	g/10 min	2.0	g/10 min	ASTM D1238
Density, (23 °C)	0.959	g/cm³	0.959	g/cm³	ASTM D1505
Film					
Tensile Strength at Break					
MD	6680	psi	46.1	MPa	ASTM D882
TD	3760	psi	25.9	MPa	ASTM D882
Tensile Strength at Yield					
MD	4150	psi	28.6	MPa	ASTM D882
TD	5140	psi	35.4	MPa	ASTM D882
Tensile Elongation at Break					
MD	870	%	870	%	ASTM D882
TD	650	%	650	%	ASTM D882
Secant Modulus					
MD	146000	psi	1010	MPa	ASTM D882
TD	191000	psi	1320	MPa	ASTM D882
Elmendorf Tear Strength					
MD	32	g	32	g	ASTM D1922
TD	90	g	90	g	ASTM D1922

Notes

Data obtained from 2.5 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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