Technical Data Sheet

Alathon M6020

High Density Polyethylene

Product Description

Alathon M6020 is a medium molecular weight high density homopolymer for use in blown or cast film applications. This resin provides extremely low gel content and high stiffness. Typical applications include dry food packaging, overwrap and WVTR.

Regulatory Status

For regulatory compliance information, see *Alathon* M6020 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	7200	psi	49.6	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	860	%	860	%	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	34	g	34	g	ASTM D1922
TD	120	g	120	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 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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