

## LyondellBasell Alathon® M6010SB High Density Polyethylene, MMW Film Grade

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Film Grade

### Material Notes:

Alathon M6010SB 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: M6010SB meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1520. This regulation allows for, among other things, the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Certain limitations or conditions of use may apply. Contact your Equistar sales representative for more information. Certain recommendations for processing M6010SB can only be made when the processing conditions, equipment and end use are provided; however, Equistar recommends that samples be produced and that users conduct their own testing in order to make their own independent determination that M6010SB is suitable and safe for their intended use and applications. Please contact your Equistar sales representative for more information. This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Alathon-M6010SB-High-Density-Polyethylene-MMW-Film-Grade.php](http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-M6010SB-High-Density-Polyethylene-MMW-Film-Grade.php)

Physical Properties	Metric	English	Comments
Density	0.958 g/cc	0.0346 lb/in <sup>3</sup>	ASTM D1505
Thickness	31.8 microns	1.25 mil	
Melt Flow	1.1 g/10 min	1.1 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	27.6 MPa	4000 psi	ASTM D882
Film Tensile Strength at Yield, TD	33.1 MPa	4800 psi	ASTM D882
Film Elongation at Break, MD	700 %	700 %	ASTM D882
Film Elongation at Break, TD	400 %	400 %	ASTM D882
Secant Modulus, MD	0.986 GPa	143 ksi	ASTM E111
Secant Modulus, TD	1.38 GPa	200 ksi	ASTM E111
Elmendorf Tear Strength MD	20 g	20 g	ASTM D1922
Elmendorf Tear Strength TD	400 g	400 g	ASTM D1922
Film Tensile Strength at Break, MD	60.7 MPa	8800 psi	ASTM D882
Film Tensile Strength at Break, TD	24.8 MPa	3600 psi	ASTM D882

Processing Properties	Metric	English	Comments
-----------------------	--------	---------	----------

Melt Temperature Processing Properties	199 - 210 Å°C Metric	390 - 410 Å°F English	Comments
Die Opening	0.1524 cm	0.06000 in	
Blow-up Ratio (BUR)	2.2	2.2	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China