

Alathon® M6010SB

High Density (MMW) Polyethylene
LyondellBasell Industries

Technical Data

Product Description

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.

General

Material Status	• Commercial: Active	
Literature ¹	• Processing - Mold Shrink (English) • Processing - Polyolefin Injection Molding Guide (English) • Processing - Start-Up Guide (English) • Technical Datasheet (English)	
Search for UL Yellow Card	• LyondellBasell Industries • Alathon®	
Availability	• Asia Pacific • Europe	• North America • South America
Features	• Homopolymer	• Medium Molecular Weight
Uses	• Film	
Agency Ratings	• FDA 21 CFR 177.1520	
Forms	• Pellets	
Processing Method	• Blown Film	

Physical	Nominal Value Unit	Test Method
Density	0.958 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)	1.1 g/10 min	ASTM D1238

Films	Nominal Value Unit	Test Method
Film Thickness - Tested	32 µm	
Secant Modulus		ASTM E111
MD	1340 MPa	
TD	883 MPa	
Tensile Strength		ASTM D882
MD: Yield	27.6 MPa	
TD: Yield	32.4 MPa	
MD: Break	64.1 MPa	
TD: Break	22.1 MPa	
Tensile Elongation		ASTM D882
MD: Break	600 %	
TD: Break	400 %	
Elmendorf Tear Strength		ASTM D1922
MD	20 g	
TD	600 g	

Extrusion	Nominal Value Unit
Melt Temperature	199 to 210 °C

Extrusion Notes

2.2:1 Blow-up-ratio, 60 mil die gap

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.