

Alathon® M6020

High Density (MMW) Polyethylene
LyondellBasell Industries

Technical Data

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.

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	• Food Contact Acceptable • High Density	• High Stiffness • Homopolymer	• Low Gel • Medium Molecular Weight
Uses	• Cast Film • Film	• Food Packaging • Packaging	
Agency Ratings	• FDA 21 CFR 177.1520		
Forms	• Pellets		
Processing Method	• Blown Film	• Cast Film	

Physical	Nominal Value Unit	Test Method
Density	0.960 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0 g/10 min	ASTM D1238

Films	Nominal Value Unit	Test Method
Secant Modulus		ASTM E111
MD	945 MPa	
TD	1300 MPa	
Tensile Strength		ASTM D882
MD: Yield	24.1 MPa	
TD: Yield	25.5 MPa	
MD: Break	49.6 MPa	
TD: Break	22.1 MPa	
Tensile Elongation		ASTM D882
MD: Break	860 %	
TD: Break	850 %	
Elmendorf Tear Strength		ASTM D1922
MD	34 g	
TD	500 g	

Extrusion	Nominal Value Unit
Melt Temperature	199 to 210 °C

Extrusion Notes

Typical Extrusion Conditions:
2.0 mil Blown Film
Blow Up Ratio: 2.5:1
Die Gap: 60 mil

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.