

Alathon® M5865PA

High Density Polyethylene

LyondellBasell Industries

Technical Data

Product Description

Alathon M5865PA is a medium molecular weight high density homopolymer for use in blown or cast film applications. This resin provides extremely low gel content, high stiffness and narrow molecular weight distribution. Typical applications for this resin are dry food packaging, cast film, 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	• North America		
Features	• Food Contact Acceptable • High Density • High Stiffness	• Homopolymer • Low Gel • Medium Molecular Weight	• Narrow Molecular Weight Distribution
Uses	• Cast Film	• Film	• Food Packaging
Agency Ratings	• FDA 21 CFR 177.1520		
Processing Method	• Blown Film	• Cast Film	

Physical	Nominal Value Unit	Test Method
Density	0.958 g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.5 g/10 min	ASTM D1238

Films	Nominal Value Unit	Test Method
Secant Modulus		ASTM D882
MD	793 MPa	
TD	896 MPa	
Tensile Strength		ASTM D882
MD: Yield	24.1 MPa	
TD: Yield	24.8 MPa	
Tensile Elongation		ASTM D882
MD: Break	900 %	
TD: Break	800 %	
Water Vapor Transmission Rate	62 g/m²/24 hr	ASTM F1249

Extrusion	Nominal Value Unit
Melt Temperature	199 °C

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.