

Alathon® M6010-2

High Density (MMW) Polyethylene
LyondellBasell Industries

Message:

Alathon M6010-2 is a medium molecular weight high density polyethylene homopolymer for use in blown film applications. Typical applications include those with low WVTR requirements.

General Information			
Features	Homopolymer		
	Compliance of Food Exposure		
	Medium molecular weight		
Uses	Blown Film		
	Films		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.2	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM E111
MD: 32 µm, blown film	993	MPa	ASTM E111
TD: 32 µm, blown film	1320	MPa	ASTM E111
Tensile Strength			
MD: Yield, 32 µm, blown film	31.0	MPa	ASTM D882
TD: Yield, 32 µm, blown film	34.5	MPa	ASTM E111
MD: Broken, 32 µm, blown film	57.2	MPa	ASTM D882
TD: Broken, 32 µm, blown film	31.0	MPa	ASTM D882
Tensile Elongation - MD (Broken, 32 µm, blown film)	650	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD: 32 µm, blown film	19	g	ASTM D1922
TD: 32 µm, blown film	550	g	ASTM D1922

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