

Alathon® M5010

High Density Polyethylene
LyondellBasell Industries

Message:

Alathon M5010 is a medium molecular weight high density polyethylene copolymer for use in blown film applications.

General Information			
Features	High density		
	Medium molecular weight		
Uses	Films		
Physical	Nominal Value	Unit	Test Method
Density	0.947	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	64	µm	
secant modulus			ASTM E111
MD: 51 µm, blown film	717	MPa	ASTM E111
TD: 51 µm, blown film	910	MPa	ASTM E111
Tensile Strength			ASTM D882
MD: Yield, 51 µm, blown film	23.4	MPa	ASTM D882
TD: Yield, 51 µm, blown film	26.9	MPa	ASTM D882
MD: Broken, 51 µm, blown film	48.3	MPa	ASTM D882
TD: Broken, 51 µm, blown film	28.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 51 µm, blown film	700	%	ASTM D882
TD: Broken, 51 µm, blown film	1000	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD: 51 µm, blown film	66	g	ASTM D1922
TD: 51 µm, blown film	150	g	ASTM D1922
Extrusion	Nominal Value	Unit	
Melt Temperature	199 - 210	°C	
Extrusion instructions			
2.2:1 Blow-up-ratio, 60 mil die gap			

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