

Alathon® M6210

High Density (MMW) Polyethylene
LyondellBasell Industries

Message:

ALATHON M6210 is a medium molecular weight high density homopolymer. Typical applications for this resin are blown film, coextrusion and low WVTR.

General Information	
Features	Homopolymer
	Compliance of Food Exposure
	Medium molecular weight
Uses	Films
Agency Ratings	FDA 21 CFR 177.1520
Forms	Particle
Processing Method	Blow film
	Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.95	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
MD	938	MPa	ASTM D882
TD	1270	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	26.9	MPa	ASTM D882
TD: Yield	27.6	MPa	ASTM D882
MD: Fracture	54.5	MPa	ASTM D882
TD: Fracture	23.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	700	%	ASTM D882
TD: Fracture	750	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD	25	g	ASTM D1922
TD	1100	g	ASTM D1922
Extrusion	Nominal Value	Unit	
Melt Temperature	199 - 210	°C	

Extrusion instructions

Typical Extrusion Conditions2.0 mil Blown FilmBlow Up Ratio: 2.5:1Die Gap: 60 mil

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