

Alathon

M5410

High Density Polyethylene

MMW Film Grade

Melt Index **1.15** Density **0.954**



Applications

Alathon M5410 is a medium molecular weight high density polyethylene copolymer for use in blown film applications.

Regulatory Status

M5410 meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food..." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information.

Processing Techniques

Certain recommendations for processing M5410 can only be made when the processing conditions, equipment and end use are provided; however, Equistar recommends that samples be produced and that users conduct their own testing in order to make their own independent determination that M5410X01 is suitable and safe for their intended use and applications. Please contact your Equistar sales representative for more information.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	1.15	g/10 min	D 1238
Density	0.954	g/cc	D 1505
Film Properties			
3.0 mils			
Elmendorf Tear Strength, MD (TD)	83 (260)	g	D 1922
Tensile Strength @ Yield, MD (TD)	3,780 (4,510)	psi	D 882
Tensile Strength @ Break, MD (TD)	5,980 (6,110)	psi	D 882
Elongation @ Break, MD (TD)	750 (920)	%	D 882
Secant Modulus, MD (TD)	118,000 (156,000)	psi	E 111

Typical Extrusion Conditions:

3.0 mil Blown Film; 2.2:1 Blow-up-ratio, Melt Temperature 390-410°F (199-210°C), 60 mil die gap
