

Preliminary Data Sheet

Starflex

GM1210BA

Metallocene Linear Low Density Polyethylene
Film Extrusion Grade

Melt Index 1.0 Base Resin Density 0.912

Applications

Starflex GM1210BA is a pelletized mLLDPE resin for use in applications that require maximum strength and toughness. GM1210BA contains a processing aid but does not contain slip or antiblock.

Regulatory Status

GM1210BA meets the requirements of the Food and Drug Administration 21 CFR 177.1520. This regulation allows for, among other things, the use of this olefin polymer in "articles or components or articles intended for use in contact with food." Certain limitations or conditions of use may apply. Contact your Equistar sales representative for more information.

Processing Techniques

Recommended processing conditions for GM1210BA are a 400° - 450°F melt temperature and a 1.5 to 3.0 blow-up ratio. Using proper techniques, these products can readily be drawn below 0.9 mils at optimum production rates. Specific recommendations for type of mLLDPE resin and extrusion conditions can only be made when the end use, required properties and extrusion equipment are provided; however, Equistar recommends that users conduct performance testing on finished articles in order to make an independent determination that GM1210BA is suitable and safe for all intended uses and applications. For further information, please contact your Equistar sales representative.

Typical Properties

Resin	Nominal Value	Units	ASTM Test Method
Melt Index (190/2.16)	1.0	g/10 min	D 1238
Density	0.912	g/cc	D 1505
Film			
Gauge	0.75	mil	
Blow-up Ratio	2.5:1		
Haze	12	%	D 1003
Gloss, 45°	50	units	D 2457
Dart Drop Impact Strength, F ₅₀	1,350	g	D 1709/A
Tensile Strength @ Break MD (TD)	9,500 (6,200)	psi	D 882
Elongation @ Break, MD (TD)	400 (500)	%	D 882
1% Secant Modulus, MD (TD)	22,000 (23,000)	psi	D 882
Elmendorf Tear, MD (TD)	140 (200)	g	D 1922

The values listed for physical properties are nominal values only and are subject to normal variations consistent with the test methods and/or variations found acceptable to the industry.

Additives

Slip	0	ppm
Antiblock	0	ppm
Processing Aid	Yes	

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