

Starflex GM1810BA

Metallocene Linear Low Density Polyethylene
LyondellBasell Industries

Message:

Starflex GM1810BA 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.

General Information			
Additive	Processing aid		
Features	High strength		
	Good toughness		
	Compliance of Food Exposure		
Uses	Films		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	19	µm	
secant modulus			ASTM D882
1% secant, MD: 19 µm	186	MPa	ASTM D882
1% secant, TD: 19 µm	193	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Break, 19 µm	67.6	MPa	ASTM D882
TD: Break, 19 µm	59.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 19 µm	470	%	ASTM D882
TD: Break, 19 µm	570	%	ASTM D882
Dart Drop Impact ¹ (19 µm)	1100	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 19 µm	150	g	ASTM D1922
TD : 19 µm	260	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 19.1 µm)	50		ASTM D2457
Haze (19.1 µm)	12	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	204 - 232	°C	

Extrusion instructions

Blow-up ratio: 1.5 to 3

NOTE

1. F50

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