

Starflex GM1810BE

Metallocene Linear Low Density Polyethylene
LyondellBasell Industries

Message:

Starflex GM1810BE is a pelletized mLLDPE resin for use in applications that require maximum strength and toughness. GM1210BA contains a processing aid, slip and antiblock.

General Information			
Additive	Processing aid		
	Anti-caking agent (5000 ppm)		
	Sliding agent (1000 ppm)		
Features	High strength		
	smoothness		
	Anti-caking property		
	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	0.921	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)	600	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)	45		ASTM D2457
Haze (19.1 μm)	16	%	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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