

Braskem PE SBF0323/12HC

Low Density Polyethylene

Braskem America Inc.

Message:

Description: SBF0323/12HC is a high molecular weight LDPE produced under high pressure technology. Films obtained with this product show outstanding optical properties, excellent mechanical properties, and good shrinkage. The minimum biobased content of this grade is 95%, determined according to ASTM D6866.

Additive: Slip Medium. Antiblock Medium.

Applications: Automatic packaging of solid and liquid products; shrink films for pallets.

Process: Blown Film Extrusion.

General Information			
Additive	Anti-caking agent slip agent		
Features	High molecular weight Optical Updatable resources BPA-free Moderate caking resistance Moderate smoothness		
Uses	Pallets Packaging Films		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Film extrusion Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.32	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
Tensile Strength			ASTM D882
MD: Broken, 38 µm, blown film	40.0	MPa	ASTM D882
TD: Broken, 38 µm, blown film	30.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 38 µm, blown film	390	%	ASTM D882
TD: Broken, 38 µm, blown film	1000	%	ASTM D882

Dart Drop Impact ¹ (38 μm, Blown Film)	100	g	ASTM D1709
Elmendorf Tear Strength - TD (38 μm, Blown Film)	100	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (60 °, blown film)	83		ASTM D2457
Haze (Blown Film)	11	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Biobased Content	> 95	%	ASTM D6866

Blown Film Properties: 38μm thickness film, processed in a 75 mm screw diameter extruder with blow up ratio of 2:1, die gap 1.0 mm Recommended process conditions: Blown Film Extrusion Extruder: Screw- relation L/D.....16 to 30:1 Compression Ratio.....3 to 4:1 Screw Package

(Mesh)...40/60/40 Temperature Profile:

1st zone.....110°C

Extruder.....180°C

Die.....190°C

Blow up ratio.....from 2 to 3:1 Frostline Height.....maximum equivalent to bubble diameter

NOTE

1. F50

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