

Braskem PE SEB853/72

Low Density Polyethylene

Braskem America Inc.

Message:

Description: SEB853/72 is a grade produced under high pressure technology. Films obtained with this product show outstanding optical properties, good sealability, and low gel amount. The minimum biobased content of this grade is 95%, determined according to ASTM D6866.

Additives: Slip Agent Medium. Antiblocking Agent Medium.

Applications: Lamination film; general purpose; automatic packaging of solids products (FFS).

Process: Blown Film Extrusion.

General Information	
Additive	Anti-caking agent slip agent
Features	Low speed solidification crystal point Optical Updatable resources BPA-free Moderate caking resistance Moderate smoothness
Uses	Packaging Films General
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)	2.7	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	30.0	MPa	ASTM D882
TD: Broken, 38 µm, blown film	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 38 µm, blown film	270	%	ASTM D882
TD: Broken, 38 µm, blown film	1000	%	ASTM D882
Dart Drop Impact ¹ (38 µm, Blown Film)	70	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)	112		ASTM D2457
Haze (Blown Film)	5.0	%	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 mmRecommended process conditions:Blown Film ExtrusionExtruder:Screw- relation L/D.....16 to 30:1Compression Ratio.....3 to 4:1Screw Package (Mesh)...40/60/40Temperature Profile:
1st zone.....110°C
Extruder.....150°C
Die.....160°C
Blow up ratio.....from 2 to 3:1Frostline Height.....maximum equivalent to bubble diameter

NOTE

1. F50

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