

Braskem PE SEB853

Low Density Polyethylene

Braskem America Inc.

Message:

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

Applications: Typical blown film applications include films for diapers and other general purposes as well as LLDPE and HDPE blends.

Process: Blown and Cast Film Extrusion

General Information			
Features	Low speed solidification crystal point		
	Optical		
	Updatable resources		
	BPA-free		
	No additive		
Uses	Films		
	Mixing		
	General		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Film extrusion		
	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ASTM D1505
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	40.0	MPa	ASTM D882
TD: Broken, 38 µm, blown film	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 38 µm, blown film	300	%	ASTM D882
TD: Broken, 38 µm, blown film	280	%	ASTM D882
Dart Drop Impact ¹ (38 µm, Blown Film)	50	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)	113		ASTM D2457
Haze (Blown Film)	5.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Biobased Content	> 95	%	ASTM D6866

Blown Film Properties: Obtained in 75mm extruder, blow up ratio 2:1, die gap 1.0mm and 38μm thickness. 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.....150°C

Die.....160°C

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

NOTE

1. F50

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