

# Braskem PE SPB681/59

Low Density Polyethylene

Braskem America Inc.

## Message:

Description: SPB681/59 is a low density polyethylene produced under high pressure technology. Films obtained with this product show excellent 'draw down', good sealability and adhesion on paper substrates and low gel content. The minimum biobased content of this grade is 95%, determined according to ASTM D6866.

Additives: - Antiblocking agent: Medium - Slip agent: High

Applications: Films for lamination and general purpose.

Process: Blown Film Extrusion.

General Information	
Additive	Anti-caking agent slip agent
Features	Low speed solidification crystal point High smoothness Updatable resources Good stripping Good adhesion BPA-free Moderate caking resistance
Uses	Laminate General
Agency Ratings	FDA 21 CFR 177.1520
Processing Method	Film extrusion Blow film

Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.8	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	340	%	ASTM D882
TD: Broken, 38 µm, blown film	1100	%	ASTM D882

Dart Drop Impact <sup>1</sup> (38 μm, Blown Film)	60	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: Obtained in 75mm extruder, blow up ratio 2:1, die gap 1.0mm and 38μm thickness. Recommended processing conditions: Blown Film Extrusion Equipment: Screw - L/D relation.....16 to 30:1 Compression rate.....3 to 4:1 Screen package (Mesh).....40/60/40 Temperature profile: 1 st zone.....110 °C From the screw to the die.....140 °C Die.....150 °C Blow up ratio:.....from 2 to 3:1 Frostline height.....at most equivalent to the bubble diameter

#### NOTE

1. F50

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