

Braskem PE SBC818R50

Low Density Polyethylene

Braskem America Inc.

Message:

Description: SBC818R50 is a low density polyethylene developed for coating process, it presents very good optical properties, low neck-in, good film stability, and good adhesion on porous substrate. Additives free. The minimum biobased content of this grade is 45%, determined according to ASTM D6866.

Applications: Extrusion coating. Injection of general parts and carrier for masterbatches.

General Information			
Features	Optical		
	Updatable resources		
	Good adhesion		
	Low shrinkage		
	BPA-free		
	No additive		
Uses	Masterbatch		
	Coating application		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Extrusion coating		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.1	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus - 1% Secant	70.0	MPa	ASTM D882
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Tensile Strength			ASTM D882
MD: Broken, 25 µm, blown film	25.0	MPa	ASTM D882
TD: Broken, 25 µm, blown film	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 25 µm, blown film	380	%	ASTM D882
TD: Broken, 25 µm, blown film	870	%	ASTM D882
Dart Drop Impact ¹ (25 µm, Blown Film)	64	g	ASTM D1709
Elmendorf Tear Strength - TD (25 µm, Blown Film)	56	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method

Gloss (60 °, blown film)	76		ASTM D2457
Haze (Blown Film)	8.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Biobased Content	> 45	%	ASTM D6866

Blown Film Properties: 25 µm thick film, obtained from a 40 mm extruder, with blow up ratio of 2.2:1, die gap 1.8 mmRecommended process conditions:Extrusion coating

Extruder type: Screw W/D ratio 20:1, Compression ratio 3 to 4:1

Temperature profile on horizontal extruder: Barrel: from 150 to 340°C, Die and melt mass: from 300 to 340°C

NOTE

1. F50

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