

Braskem PE STS7006

Low Density Polyethylene

Braskem America Inc.

Message:

Description: STS7006 is a low-density polyethylene (LDPE) specially developed for coextruded films and lamination. The resin presents a great combination among mechanical, optical and stiffness properties. Besides STS7006 has low gels content which ensure a production of excellent appearance films. This product is identified as PE 114 according to ASTM D-4976-04a standard specification. The minimum biobased content of this grade is 95%, determined according to ASTM D6866.

Additives: Antiblocking. Slip agent.

Applications: High clarity films for coextruded food packaging, such as: cheese, meat, sausages, sliced ham, etc.

Process: Blown Film Extrusion.

General Information			
Additive	Anti-caking agent		
	slip agent		
Features	Low speed solidification crystal point		
	smoothness		
	Optical		
	Anti-caking property		
	Updatable resources		
	Definition, high		
Uses	BPA-free		
	Laminate		
	Food packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Film extrusion		
	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.60	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
secant modulus			ASTM D882
2% secant, MD: 50 µm, blown film	140	MPa	ASTM D882
2% secant, TD: 50 µm, blown film	170	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 50 µm, blown film	25.0	MPa	ASTM D882

TD: Broken, 50 μm, blown film	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 μm, blown film	350	%	ASTM D882
TD: Broken, 50 μm, blown film	700	%	ASTM D882
Dart Drop Impact ¹ (50 μm, Blown Film)	170	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 50 μm, blown film	310	g	ASTM D1922
TD: 50 μm, blown film	250	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45, blown film	60		ASTM D2457
60, blown film	84		ASTM D2457
Haze (Blown Film)	9.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Biobased Content	> 95	%	ASTM D6866
Blown Film Properties: 50μm thickness film, processed in a 50mm blow film line with barrier screw. 25:1 L/D and a 1.0 mm die gap at a 2.3: 1 blow up ratio.Recommended processing conditions:Blow Film ExtrusionTemperature Profile:·····from 150 to 185°CMass Temperature:····· from 180 to 185°CBlow up Ratio:·····,···from 2,0 to 3,0:1Die Gap:·····,1,0 mm			
NOTE			
1.	F50		

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