

Braskem PE LL4405S

Linear Low Density Polyethylene

Braskem

Message:

LL4405S is a Linear Low Density Polyethylene developed for cast film extrusion. Films obtained with this product show a good processing performance balanced with good mechanical properties and processability. Very low gel amount.

Additive:

Antiblocking High

Slip - High

Applications:

Liners; LDPE and HDPE blends; general use packages; technical films for automatic packaging.

Process:

Blown Film Extrusion

General Information			
Additive	High smoothness		
	High caking resistance		
Features	Low speed solidification crystal point		
	High smoothness		
	High caking resistance		
	Workability, good		
Uses	Blown Film		
	Packaging		
	Films		
	Lining		
	Mixing		
	cast film		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.922	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Blown Film)	0.12		ASTM D1894
Films	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D882
MD: Broken, 40 µm, blown film	30.0	MPa	ASTM D882

TD: Broken, 40 μm, blown film	30.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 40 μm, blown film	1100	%	ASTM D882
TD: Broken, 40 μm, blown film	1300	%	ASTM D882
Flexural Modulus			ASTM D790
1% Secant, MD : 40 μm, Blown Film	200	MPa	ASTM D790
1% Secant, TD : 40 μm, Blown Film	220	MPa	ASTM D790
Dart Drop Impact (40 μm, Blown Film)	75	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 40 μm, blown film	60	g	ASTM D1922
TD: 40 μm, blown film	800	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45 °, 40.0 μm, blown film	35		ASTM D2457
60 °, 40.0 μm, blown film	65		ASTM D2457
Haze (40.0 μm, Blown Film)	25	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Blocking ¹ (40.0 μm)	6.00	g/100 cm ²	ASTM D3354
NOTE			
1.	Blown Film		

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