

Braskem PE TS9022

Low Density Polyethylene

Braskem

Message:

TS9022 is a low density polyethylene (LDPE), developed specially for automatic overwrap packaging. This resin has a combination of high optical properties and excellent stiffness. The incorporated additive package consists of an antiblocking agent in high level and a slip agent in medium level, to guarantee a low coefficient of friction (COF), which fundamental for improved machineability in overwrap applications. This product is identified as PE 123 according to ASTM D- 4976-04a standard specification.

Additivation:

Antiblocking agent

Slip agent

Application:

Films for automatic overwrap packaging of hygiene markets. Typical applications are toilet tissue, kitchen paper, and napkin (paper products) overwrap. Laminated films for food packaging with (PP or BOPP), for products such as coffee, crackers, and powder milk.

Films which require good optical proprieties aligned with high stiffness.

Process:

Blown Film Extrusion

General Information			
Additive	High caking resistance		
	Anti-caking agent		
	Anti-caking agent		
	slip agent		
	Moderate smoothness		
Features	Low friction coefficient		
	Rigidity, high		
	Rigid, good		
	High caking resistance		
	smoothness		
	Optical		
	Anti-caking property		
	Moderate smoothness		
Uses	Blown Film		
	Packaging		
	Films		
	Laminate		
	Food packaging		
Agency Ratings	ASTM D 4976-PE123		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.931	g/cm ³	ASTM D792

Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.2	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
2% sectioning, MD: 40 µm, blown film	190	MPa	ASTM D882
2% sectioning, TD: 40 µm, blown film	170	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 40 µm, blown film	20.0	MPa	ASTM D882
TD: Broken, 40 µm, blown film	15.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 40 µm, blown film	350	%	ASTM D882
TD: Broken, 40 µm, blown film	950	%	ASTM D882
Dart Drop Impact (40 µm, Blown Film)	100	g	ASTM D1709
Elmendorf Tear Strength - TD (40 µm, Blown Film)	350	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45 °, 40.0 µm, blown film	70		ASTM D2457
60 °, 40.0 µm, blown film	100		ASTM D2457
Haze (40.0 µm, Blown Film)	10	%	ASTM D1003

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