

Braskem TS9002 LDPE Blown Film Extrusion Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Film Grade

Material Notes:

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 a high level antiblocking agent and a medium level slip agent to guarantee a low coefficient of friction (COF), which is fundamental for improved machinability in overwrap applications. This product is identified as PE 123 according to ASTM D-4976-04a standard specification. Its applications include: films for automatic overwrap packaging of hygiene markets [toilet tissue, kitchen paper, and napkin (paper products) overwrap], laminated films for food packaging with PP or BOPP (coffee, crackers, and powder milk), and films which require good optical proprieties aligned with high stiffness.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-TS9002-LDPE-Blown-Film-Extrusion-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.931 g/cc	0.0336 lb/in ³	ASTM-D792
Melt Flow	2.2 g/10 min @Load 2.16 kg, Temperature 190 °C	2.2 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	400 %	400 %	ASTM-D882
Film Elongation at Break, TD	670 %	670 %	ASTM-D882
Secant Modulus, MD	0.190 GPa	27.6 ksi	2% Secant Modulus; ASTM-D882
Secant Modulus, TD	0.170 GPa	24.7 ksi	2% Secant Modulus; ASTM-D882
Elmendorf Tear Strength MD	280 g	280 g	ASTM-D1922
Elmendorf Tear Strength TD	380 g	380 g	ASTM-D1922
Elmendorf Tear Strength, MD	5.60 g/micron	142 g/mil	ASTM-D1922
Elmendorf Tear Strength, TD	7.60 g/micron	193 g/mil	ASTM-D1922
Dart Drop	2.40 g/micron	61.0 g/mil	ASTM-D1709
Dart Drop Test	120 g	0.265 lb	ASTM-D1709
Film Tensile Strength at Break, MD	20.0 MPa	2900 psi	ASTM-D882
Film Tensile Strength at Break, TD	18.0 MPa	2610 psi	ASTM-D882

Optical Properties	Metric	English	Comments
Haze	10 %	10 %	ASTM-D1003
Gloss	60 %	60 %	Angle 45°; ASTM-D2457
	98 %	98 %	Angle 60°; ASTM-D2457

Processing Properties	Metric	English	Comments
Die Opening	0.100 cm	0.0394 in	Blow Film Extrusion
Blow-up Ratio (BUR)	2.0 - 3.0	2.0 - 3.0	Blow Film Extrusion

Descriptive Properties	Value	Comments
Mass Temperature (°C)	170-180	Blow Film Extrusion
Temperature Profile (°C)	150-180	Blow Film Extrusion

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