

Braskem TS9003 LDPE Blown Film Extrusion Polyethylene

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

Material Notes:

TS9003 is a low-density polyethylene (LDPE) that presents excellent mechanical resistance along with good optical properties and high stiffness. These characteristics ensure the production of packaging with a good appearance, a low level of breakage, and an elevated support structure during manual transport. It also presents flow properties that ensure an excellent processability in conventional extruders for LDPE, granting low energy consumption during the whole process and allowing for the production of films with good dimensional uniformity and excellent surface finishing. The incorporated additives package warrants thermal stability during processing and a low coefficient of friction (COF), which are indispensable for high productivity on the printing, cutting and welding, and shrink-wrap lines. This product is identified as PE 125 according to ASTM D-4976-04a standard specification. TS9003 contains antiblocking agent and slip agent additives. Its applications include: technical shrink-wrap films for unitization of various products (soft drink and mineral water bottles, soft drink cans, beers, paints, etc.) and monolayer and multi-layer technical films (coextrusion or laminated) for packages that need gloss associated with mechanical resistance and greater stiffness.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-TS9003-LDPE-Blown-Film-Extrusion-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.929 g/cc	0.0336 lb/in ³	ASTM-D792
Melt Flow	0.27 g/10 min @Load 2.16 kg, Temperature 190 °C	0.27 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	370 %	370 %	ASTM-D882
Film Elongation at Break, TD	700 %	700 %	ASTM-D882
Secant Modulus, MD	0.170 GPa	24.7 ksi	2% Secant Modulus; ASTM-D882
Secant Modulus, TD	0.180 GPa	26.1 ksi	2% Secant Modulus; ASTM-D882
Elmendorf Tear Strength MD	210 g	210 g	ASTM-D1922
Elmendorf Tear Strength TD	260 g	260 g	ASTM-D1922
Elmendorf Tear Strength, MD	4.20 g/micron	107 g/mil	ASTM-D1922
Elmendorf Tear Strength, TD	5.20 g/micron	132 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	25.0 MPa	3630 psi	ASTM-D882

Mechanical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Haze	12 %	12 %	ASTM-D1003
Gloss	53 %	53 %	Angle 45°; ASTM-D2457
	79 %	79 %	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)	180-220	Blow Film Extrusion
Temperature Profile (°C)	150-195	Blow Film Extrusion

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