

Petroquimica Triunfo Trithene® TS 7028 LDPE - Automatic Packaging

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE

Material Notes:

The Trithene TS 7028 resin is a low-density polyethylene (LDPE) with excellent optical and processability properties that allows for the production of films combining appearance, mechanical strength, and welding along with a uniform thickness. The incorporated additive package confers thermal stability and appropriate coefficient of friction (COF) that are fundamental for achieving high productivity on printing, cutting, welding and bagging lines. This product complies with ASTM standard D1248-IA3 and the requirements of Brazilian and corresponding legislation of Mercosul and it is in conformity with FDA Regulations 21 CFR 177.1520 (c) 2.1, to contact with foodstuff. Applications: Films for automatic or semi-automatic packaging of food products (grains, powder, or farinaceous) such as cereals, sugar, salt, and flours. Structure-laminated technical films with PP, BOPP, polyester and/or aluminum foil for packaging miscellaneous products such as coffee, crackers, etc. Resin Properties: Compressed molded plate. Method ASTM D-1928, procedure C. Film obtained on a 50mm blow film line with barrier screw, 25:1 L/D, 1.0mm die gap, 50µm gauge, 2.3:1 BUR. Information provided by Dax Resinas

Order this product through the following link:

http://www.lookpolymers.com/polymer_Petroquimica-Triunfo-Trithene-TS-7028-LDPE-Automatic-Packaging.php

Physical Properties	Metric	English	Comments
Density	0.922 - 0.924 g/cc	0.0333 - 0.0334 lb/in³	ASTM D1505
Thickness	50.0 microns	1.97 mil	
Melt Index of Compound	2.2 - 2.9 g/10 min @Load 2.16 kg, Temperature 190 °C	2.2 - 2.9 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	12.5 MPa	1810 psi	ASTM D638
Tensile Strength, Yield	11.0 MPa	1600 psi	ASTM D638
Film Elongation at Break, MD	400 %	400 %	ASTM D882
Film Elongation at Break, TD	690 %	690 %	ASTM D882
Elongation at Break	575 %	575 %	ASTM D638
Secant Modulus, MD	0.0970 GPa	14.1 ksi	5%; ASTM D882
Secant Modulus, TD	0.105 GPa	15.2 ksi	5%; ASTM D882
Coefficient of Friction, Dynamic	0.10	0.10	ASTM D1894
Elmendorf Tear Strength, MD	9.00 g/micron	229 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	6.20 g/micron	157 g/mil	ASTM D1922

Mechanical Properties	Metric	English	Comments
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

Thermal Properties	Metric	English	Comments
Vicat Softening Point	94.0 °C	201 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	7.9 %	7.9 %	ASTM D1003
Gloss	103 %	103 %	@ 60° Gardner; ASTM D2457

Processing Properties	Metric	English	Comments
Processing Temperature	150 - 160 °C	302 - 320 °F	Plasticizing Zone
	160 - 170 °C	320 - 338 °F	Mixture Zone
Feed Temperature	140 - 150 °C	284 - 302 °F	
Adapter Temperature	165 - 175 °C	329 - 347 °F	
Blow-up Ratio (BUR)	3.0	3.0	Recommended

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