Petroquimica Triunfo Trithene® TS 7010 LDPE - Medium Duty Packaging

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

Material Notes:

The Trithene TS 7010 resin is a low-density polyethylene (LDPE) with a high molecular weight, excellent processability, and good mechanical properties. The incorporated additives package warrants thermal stability, low blocking, and adequate coefficient of friction - COF, which are required to allow for high productivity on the extrusion, printing and finishing lines. This product complies with ASTM standard D1248-IA4 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 ground products) such as cereals, sugar, salt and flours, as well as frozen or chilled products such as poultry, meat, and seafood.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-7010-LDPE-Medium-Duty-Packaging.php

Physical Properties	Metric	English	Comments
Density	0.921 - 0.923 g/cc	0.0333 - 0.0333 lb/in³	ASTM D1505
Thickness	50.0 microns	1.97 mil	
Melt Index of Compound	0.80 - 1.2 g/10 min @Load 2.16 kg, Temperature 190 °C	0.80 - 1.2 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	10.0 MPa	1450 psi	ASTM D638
Film Elongation at Break, MD	300 %	300 %	ASTM D882
Film Elongation at Break, TD	625 %	625 %	ASTM D882
Elongation at Break	500 %	500 %	ASTM D638
Secant Modulus, MD	0.100 GPa	14.5 ksi	5%; ASTM D882
Secant Modulus, TD	0.110 GPa	16.0 ksi	5%; ASTM D882
Coefficient of Friction, Dynamic	0.15	0.15	ASTM D1894
Elmendorf Tear Strength, MD	8.00 g/micron	203 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	4.40 g/micron	112 g/mil	ASTM D1922
Dart Drop Test	180 g	0.397 lb	(method A); ASTM D1709

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	22.5 MPa	3260 psi	ASTM D882
Film Tensile Strength at Break, TD	20.0 MPa	2900 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	91.0 °C	196 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	10.5 %	10.5 %	ASTM D1003
Gloss	52 %	52 %	45° - Gardner; ASTM D2457
	75 %	75 %	@ 60° Gardner; ASTM D2457

Processing Properties	Metric	English	Comments
Processing Temperature	155 - 165 °C	311 - 329 °F	Plasticizing Zone
	165 - 175 °C	329 - 347 °F	Mixture Zone
Feed Temperature	150 - 160 °C	302 - 320 °F	
Adapter Temperature	175 - 185 °C	347 - 365 °F	
Blow-up Ratio (BUR)	3.0	3.0	Recommended

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