

Petroquimica Triunfo Trithene® TS 7001 LDPE - Heavy Duty Low Friction Film

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

Material Notes:

The Trithene TS 7001 resin is a low-density polyethylene (LDPE) with high molecular weight, designed to satisfy those applications that require high mechanical strength and low coefficient of friction (COF). These characteristics are especially suitable for high capacity tubular silo production that requires easy mechanical filling in the field. Trithene TS 7001 resin presents an excellent performance in conventional LDPE extruders, granting low energy consumption during the whole process and allowing the production of films with a good dimensional uniformity and an excellent surface finishing. This product complies with ASTM standard D1248-IA5 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: Tubular silos for animal food storage. 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-7001-LDPE-Heavy-Duty-Low-Friction-Film.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	0.10 - 0.14 g/10 min @Load 2.16 kg, Temperature 190 °C	0.10 - 0.14 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	18.0 MPa	2610 psi	ASTM D638
Tensile Strength, Yield	11.0 MPa	1600 psi	ASTM D638
Film Elongation at Break, MD	275 %	275 %	ASTM D882
Film Elongation at Break, TD	645 %	645 %	ASTM D882
Elongation at Break	625 %	625 %	ASTM D638
Secant Modulus, MD	0.120 GPa	17.4 ksi	5%; ASTM D882
Secant Modulus, TD	0.130 GPa	18.9 ksi	5%; ASTM D882
Coefficient of Friction, Dynamic	0.15	0.15	ASTM D1894
Elmendorf Tear Strength, MD	6.80 g/micron	173 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	5.60 g/micron	142 g/mil	ASTM D1922

Dart Drop Test Mechanical Properties	210 g Metric	0.463 lb English	(method A): ASTM D1709 Comments
Film Tensile Strength at Break, MD	28.0 MPa	4060 psi	ASTM D882
Film Tensile Strength at Break, TD	26.0 MPa	3770 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	95.0 °C	203 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	180 - 195 °C	356 - 383 °F	Plasticizing Zone
	200 - 210 °C	392 - 410 °F	Mixture Zone
Feed Temperature	170 - 185 °C	338 - 365 °F	
Adapter Temperature	210 - 225 °C	410 - 437 °F	
Die Opening	0.0800 - 0.100 cm	0.0315 - 0.0394 in	
Blow-up Ratio (BUR)	3.0	3.0	Recommended

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