

Petroquimica Triunfo Trithene® TX 4003 LDPE and LLDPE Blend - High Resistance Film

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

Material Notes:

The Trithene® TX 4003 resin is a blend of low-density polyethylene (LDPE) of high molecular weight with linear low-density polyethylene (LLDPE) designed for the production of industrial films. Since it presents gains in resistance in the weld region, this product meets the requirements of the cutting and welding line and/or of the automatic or semi-automatic packaging, contributing to the reduction of losses due to sacks breaking. The Trithene® TX 4003 resin presents excellent performance on conventional extruders for LDPE, ensuring thermal stability during the processing and allowing the production of films with good thickness uniformity. The components that form the product Trithene® TX 4003 complies with 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: Technical films for high resistance industrial packages and plastic tarps for various uses such as for covering structures and sheds, films for waterproofing, etc. Industrial bags, bags for packaging with greater mechanical resistance as well as against perforation and impact. 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-TX-4003-LDPE-and-LLDPE-Blend-High-Resistance-Film.php

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in ³	ASTM D1505
Thickness	50.0 microns	1.97 mil	
Melt Index of Compound	0.30 g/10 min @Load 2.16 kg, Temperature 190 °C	0.30 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	380 %	380 %	ASTM D882
Film Elongation at Break, TD	765 %	765 %	ASTM D882
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	0.50	0.50	ASTM D1894
Elmendorf Tear Strength, MD	2.80 g/micron	71.1 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	2.60 g/micron	66.0 g/mil	ASTM D1922
Dart Drop Test	180 g	0.397 lb	(method A); ASTM D1709

Film Tensile Strength at Break, MD Mechanical Properties	31.0 MPa Metric	4500 psi English	ASTM D882 Comments
Film Tensile Strength at Break, TD	36.0 MPa	5220 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	16 %	16 %	ASTM D1003
Gloss	63 %	63 %	@ 60° Gardner; ASTM D2457

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 - 0.170 cm	0.0315 - 0.0669 in	
Blow-up Ratio (BUR)	3.0	3.0	Recommended

Descriptive Properties	Value	Comments
Proportion LLDPE %	22.5	PTN-570-Q

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