

Petroquimica Triunfo Trithene® TS 4016 LDPE and LLDPE Blend - Film

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

Material Notes:

The Trithene® TS 4016 resin is a mixture of low-density polyethylene (LDPE) with linear low-density polyethylene (LLDPE) designed to meet the needs of the technical films segment for the use of automatic packaging. The formula developed confers to the Trithene® TS 4016 resin easy processability with conventional LDPE extruders, ensuring films with good appearance, thickness uniformity, and excellent weldability. Furthermore, the incorporated additive package brings thermal stability and good slip performance, which are fundamental for offering high productivity rates on the packaging line. The components that form the product Trithene® TS 4016 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 the automatic packaging of food products in the form of grains, powder, or farinaceous, such as cereals, sugar, salt, and flours. 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-4016-LDPE-and-LLDPE-Blend-Film.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in³	ASTM D1505
Thickness	50.0 microns	1.97 mil	
Melt Index of Compound	1.6 g/10 min @Load 2.16 kg, Temperature 190 °C	1.6 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	460 %	460 %	ASTM D882
Film Elongation at Break, TD	780 %	780 %	ASTM D882
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	0.10	0.10	ASTM D1894
Elmendorf Tear Strength, MD	7.00 g/micron	178 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	10.5 g/micron	267 g/mil	ASTM D1922
Dart Drop Test	160 g	0.353 lb	(method A); ASTM D1709
Film Tensile Strength at Break, MD	25.0 MPa	3630 psi	ASTM D882
Film Tensile Strength at Break, TD	22.0 MPa	3190 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	9.0 %	9.0 %	ASTM D1003
Gloss	63 %	63 %	45° - Gardner; ASTM D2457
	96 %	96 %	@ 60° Gardner; ASTM D2457

Processing Properties	Metric	English	Comments
Processing Temperature	170 - 175 °C	338 - 347 °F	Plasticizing Zone
	170 - 180 °C	338 - 356 °F	Mixture Zone
Feed Temperature	160 - 165 °C	320 - 329 °F	
Adapter Temperature	175 - 185 °C	347 - 365 °F	

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

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