

Petroquimica Triunfo Trilene® TS 5009 LLDPE-C4 and LDPE Blend

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

Material Notes:

The Trilene® TS 5009 product is a blend with a high ratio of linear low-density polyethylene (LLDPE) with low-density polyethylene (LDPE) with elevated processability, ensuring the production of films with uniform thickness and good visual appearance and weldability. The additive package gives it thermal stability, low blocking and adequate slip performance, which are indispensable to allow high productivity on the extrusion, printing, and finishing lines. The formulation of this product was developed for direct use with design extruders or adapted for the processing of LLDPE. The components that form the product Trilene® TS 5009 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 laminated films designed for packaging of various products such as coffee, crackers, etc. Technical films for automatic or semi-automatic packaging of solid products (grains, powdered, etc.), liquids (milk, yogurt, etc.), and frozen foods (poultry, beef cuts, seafood, ice, 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-Trilene-TS-5009-LLDPE-C4-and-LDPE-Blend.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D1505
Thickness	50.0 microns	1.97 mil	
Melt Index of Compound	0.90 g/10 min @Load 2.16 kg, Temperature 190 °C	0.90 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	845 %	845 %	ASTM D882
Film Elongation at Break, TD	940 %	940 %	ASTM D882
Secant Modulus, MD	0.108 GPa	15.7 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	3.90 g/micron	99.1 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	16.9 g/micron	429 g/mil	ASTM D1922
Dart Drop Test	165 g	0.364 lb	(method A); ASTM D1709
Film Tensile Strength at Break, MD	31.0 MPa	4500 psi	ASTM D882
Film Tensile Strength at Break, TD	27.0 MPa	3920 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Haze	9.5 %	9.5 %	ASTM D1003
Gloss	115 %	115 %	@ 60° Gardner; ASTM D2457

Processing Properties	Metric	English	Comments
Processing Temperature	180 - 190 °C	356 - 374 °F	Plasticizing Zone
	190 - 200 °C	374 - 392 °F	Mixture Zone
Feed Temperature	180 - 190 °C	356 - 374 °F	
Adapter Temperature	200 - 215 °C	392 - 419 °F	
Die Opening	0.180 - 0.250 cm	0.0709 - 0.0984 in	
Blow-up Ratio (BUR)	3.0	3.0	Recommended

Descriptive Properties	Value	Comments
Proportion LLDPE %	75	PTN-570-Q

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