

Petroquimica Triunfo Trilene® TS 8056 LLDPE-C8 and LDPE Blend

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

Material Notes:

The Trilene® TS 8056 product is a blend with a high ratio of linear low-density polyethylene - octene comonomer (LLDPE-C8) with low-density polyethylene (LDPE) with elevated processability, ensuring the production of films with uniform thickness and good visual appearance and weldability. This product presents excellent puncture resistance, exactly to the low temperatures, what it becomes it especially adequate the production of packings for frozen products, as cuts of meat and chicken with or without bone, fish, seafood and ice. 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 resin should be processed in extruders that are designed or adapted for LLDPE. The components that form the product Trilene® TS 8056 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-8056-LLDPE-C8-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	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	790 %	790 %	ASTM D882
Film Elongation at Break, TD	890 %	890 %	ASTM D882
Secant Modulus, MD	0.0930 GPa	13.5 ksi	5%; ASTM D882
Secant Modulus, TD	0.0970 GPa	14.1 ksi	5%; ASTM D882
Coefficient of Friction, Dynamic	0.090	0.090	ASTM D1894
Elmendorf Tear Strength, MD	13.2 g/micron	335 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	13.2 g/micron	335 g/mil	ASTM D1922
Dart Drop Test	300 g	0.662 lb	(method A); ASTM D1709

Film Tensile Strength at Break, MD Mechanical Properties	32.0 MPa Metric	4640 psi English	ASTM D882 Comments
Film Tensile Strength at Break, TD	29.0 MPa	4210 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	7.5 %	7.5 %	ASTM D1003
Gloss	113 %	113 %	@ 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	170 - 180 °C	338 - 356 °F	
Adapter Temperature	180 - 200 °C	356 - 392 °F	
Die Cooling Temperature	200 - 220 °C	392 - 428 °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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