

Petroquimica Triunfo Trithene® TS 7006 LDPE - Coextruded Film

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

Material Notes:

The Trithene TS 7006 resin is a low-density polyethylene (LDPE) with high molecular weight and very good clarity. The unique combination of good processability, bubble stability, gloss, and strength meet all the requirements for barrier films coextrusion, even for very thin structures. The antioxidant package allows for very good thermal stability during processing. This product complies with ASTM standard D1248-IA4 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: High clarity films, coextruded with polyamide, EVOH, PVdC, etc. for food packaging, such as: cheese, meat, sausages, sliced ham, 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-Trithene-TS-7006-LDPE-Coextruded-Film.php

Physical Properties	Metric	English	Comments
Density	0.923 - 0.926 g/cc	0.0333 - 0.0335 lb/in³	ASTM D1505
Thickness	50.0 microns	1.97 mil	
Melt Index of Compound	0.50 - 0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.50 - 0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	16.0 MPa	2320 psi	ASTM D638
Tensile Strength, Yield	12.0 MPa	1740 psi	ASTM D638
Film Elongation at Break, MD	350 %	350 %	ASTM D882
Film Elongation at Break, TD	700 %	700 %	ASTM D882
Elongation at Break	575 %	575 %	ASTM D638
Secant Modulus, MD	0.117 GPa	17.0 ksi	5%; ASTM D882
Secant Modulus, TD	0.125 GPa	18.1 ksi	5%; ASTM D882
Coefficient of Friction, Dynamic	0.15	0.15	ASTM D1894
Elmendorf Tear Strength, MD	7.40 g/micron	188 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	5.70 g/micron	145 g/mil	ASTM D1922
Dart Drop Test	160 g	0.353 lb	(method A); ASTM D1709

Film Tensile Strength at Break, MD Mechanical Properties	26.0 MPa Metric	3770 psi English	ASTM D882 Comments
Film Tensile Strength at Break, TD	23.0 MPa	3340 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	97.0 °C	207 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	9.0 %	9.0 %	ASTM D1003
Gloss	85 %	85 %	@ 60° Gardner; ASTM D2457

Processing Properties	Metric	English	Comments
Processing Temperature	155 - 165 °C	311 - 329 °F	Plasticizing Zone; Monoextrusion
	165 - 175 °C	329 - 347 °F	Mixture Zone; Monoextrusion
	170 - 180 °C	338 - 356 °F	Plasticizing Zone; Coextrusion with polyamide
	180 - 190 °C	356 - 374 °F	Mixture Zone; Coextrusion with polyamide
Feed Temperature	150 - 160 °C	302 - 320 °F	Mono-extrusion
	160 - 170 °C	320 - 338 °F	Co-extrusion with Polyamide
Adapter Temperature	175 - 185 °C	347 - 365 °F	Mono-extrusion
	220 - 230 °C	428 - 446 °F	Co-extrusion with Polyamide
Blow-up Ratio (BUR)	3.0	3.0	Recommended

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