

Petroquimica Triunfo Trithene® TS 7045 LDPE - Film - Plastification

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

Material Notes:

The Trithene TS 7045 resin is a low-density polyethylene (LDPE) with an excellent processability, which allows for a low energy consumption during extrusion and warrants the production of thin films with good appearance and optical properties, uniform thickness, strong heat sealing characteristics, and a good barrier to water vapor. The additive package warrants thermal stability, low blocking, and adequate coefficient of friction - COF, which are required to allow high productivity on the extrusion, printing and finishing lines. This product complies with ASTM standard D1248-IA3 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: Films for structure-plastified of paper, cardboard. High transparency, very thin films.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-7045-LDPE-Film-Plastification.php

Physical Properties	Metric	English	Comments	
Density	0.922 - 0.925 g/cc	0.0333 - 0.0334 lb/in ³	ASTM D1505	
Thickness	50.0 microns	1.97 mil		
Melt Index of Compound	4.0 - 5.0 g/10 min	4.0 - 5.0 g/10 min		
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	ASTM D1238	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	12.0 MPa	1740 psi	ASTM D638
Tensile Strength, Yield	10.0 MPa	1450 psi	ASTM D638
Film Elongation at Break, MD	350 %	350 %	ASTM D882
Film Elongation at Break, TD	650 %	650 %	ASTM D882
Elongation at Break	540 %	540 %	ASTM D638
Secant Modulus, MD	0.0900 GPa	13.1 ksi	5%; ASTM D882
Secant Modulus, TD	0.0990 GPa	14.4 ksi	5%; ASTM D882
Coefficient of Friction, Dynamic	0.090	0.090	ASTM D1894
Elmendorf Tear Strength, MD	12.0 g/micron	305 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	6.50 g/micron	165 g/mil	ASTM D1922



Mechanical Properties	125 g Metric	0.276 lb English	(method A): ASTM D1709 Comments
Film Tensile Strength at Break, MD	18.5 MPa	2680 psi	ASTM D882
Film Tensile Strength at Break, TD	15.5 MPa	2250 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	8.8 %	8.8 %	ASTM D1003
Gloss	63 %	63 %	45° - Gardner; ASTM D2457
	105 %	105 %	@ 60° Gardner; ASTM D2457

Processing Properties	Metric	English	Comments
Processing Temperature	145 - 160 °C	293 - 320 °F	Plasticizing Zone
	150 - 165 °C	302 - 329 °F	Mixture Zone
Feed Temperature	135 - 150 °C	275 - 302 °F	
Adapter Temperature	160 - 175 °C	320 - 347 °F	
Blow-up Ratio (BUR)	3.5	3.5	Recommended

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