

Petroquimica Triunfo Trithene® TS 8064 LDPE - Packaging Film

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

Material Notes:

The Trithene TS 8064 resin is a low-density polyethylene (LDPE) with a medium molecular weight an excellent processability. Furthermore, this product has good mechanical properties, average transparency, and an additive package with slip, anti-block, and antioxidant agents, which ensure an adequate performance during production lines such as printing, cutting, and welding. 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: Conventional packages and bags for both food and non-food products. Films for general use. Store bags, 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-8064-LDPE-Packaging-Film.php

Physical Properties	Metric	English	Comments
Density	0.920 - 0.926 g/cc	0.0332 - 0.0335 lb/in ³	ASTM D1505
Thickness	50.0 microns	1.97 mil	
Melt Index of Compound	1.8 - 2.6 g/10 min @Load 2.16 kg, Temperature 190 °C	1.8 - 2.6 g/10 min @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	11.0 MPa	1600 psi	ASTM D638
Film Elongation at Break, MD	365 %	365 %	ASTM D882
Film Elongation at Break, TD	670 %	670 %	ASTM D882
Elongation at Break	550 %	550 %	ASTM D638
Secant Modulus, MD	0.0970 GPa	14.1 ksi	5%; ASTM D882
Secant Modulus, TD	0.105 GPa	15.2 ksi	5%; ASTM D882
Coefficient of Friction, Dynamic	0.12	0.12	ASTM D1894
Elmendorf Tear Strength, MD	8.40 g/micron	213 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	5.40 g/micron	137 g/mil	ASTM D1922
Dart Drop Test	130 g	0.287 lb	(method A); ASTM D1709

Film Tensile Strength at Break, MD Mechanical Properties	20.0 MPa Metric	2900 psi English	ASTM D882 Comments
Film Tensile Strength at Break, TD	18.0 MPa	2610 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	94.0 °C	201 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	9.0 %	9.0 %	ASTM D1003
Gloss	90 %	90 %	@ 60° Gardner; ASTM D2457

Processing Properties	Metric	English	Comments
Processing Temperature	160 - 175 °C	320 - 347 °F	Plasticizing Zone
	165 - 180 °C	329 - 356 °F	Mixture Zone
Feed Temperature	150 - 165 °C	302 - 329 °F	
Adapter Temperature	170 - 180 °C	338 - 356 °F	
Blow-up Ratio (BUR)	3.0	3.0	Recommended

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