Petroquimica Triunfo Trithene® TS 7035 LDPE - Film - Lamination and Plastification

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

Material Notes:

The Trithene TS 7035 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: Composition of multi-material structure laminated films for packaging of miscellaneous products such as coffee, cookies, etc. Structure-plastified films or sheets. High transparent, 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-7035-LDPE-Film-Lamination-and-Plastification.php

Physical Properties	Metric	English	Comments
Density	0.922 - 0.925 g/cc	0.0333 - 0.0334 lb/in³	ASTM D1505
Thickness	50.0 microns	1.97 mil	
Melt Index of Compound	3.0 - 4.0 g/10 min	3.0 - 4.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

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	410 %	410 %	ASTM D882
Film Elongation at Break, TD	690 %	690 %	ASTM D882
Elongation at Break	540 %	540 %	ASTM D638
Secant Modulus, MD	0.0970 GPa	14.1 ksi	5%; ASTM D882
Secant Modulus, TD	0.103 GPa	14.9 ksi	5%; ASTM D882
Coefficient of Friction, Dynamic	0.090	0.090	ASTM D1894
Elmendorf Tear Strength, MD	9.20 g/micron	234 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	6.20 g/micron	157 g/mil	ASTM D1922

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Mechanical Properties	Metric	English	Comments; ASTM D1709
Film Tensile Strength at Break, MD	20.0 MPa	2900 psi	ASTM D882
Film Tensile Strength at Break, TD	18.0 MPa	2610 psi	ASTM D882
Thermal Properties	Metric	English	Comments

Thermal Properties	Metric	English	Comments
Vicat Softening Point	93.0 °C	199 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	8.2 %	8.2 %	ASTM D1003
Gloss	100 %	100 %	@ 60° Gardner; ASTM D2457
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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

Contact Songhan Plastic Technology Co.,Ltd.

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