

Petroquimica Triunfo Trithene® TX 8024 LDPE - High Clarity Film

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

Material Notes:

The Trithene TX 8024 resin is a low-density polyethylene (LDPE) with high molecular weight and distribution narrow, designed to obtain films with very high clarity and excellent processability. 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 Polyamides, PVdC, EVOH, etc., for food packaging: cheese, ham, meat, sausages, etc. Cast films. Small flexible bottles. 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-TX-8024-LDPE-High-Clarity-Film.php

Physical Properties	Metric	English	Comments
Density	0.922 - 0.924 g/cc	0.0333 - 0.0334 lb/in ³	ASTM D1505
Thickness	50.0 microns	1.97 mil	
Melt Index of Compound	0.80 - 1.2 g/10 min @Load 2.16 kg, Temperature 190 °C	0.80 - 1.2 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	13.5 MPa	1960 psi	ASTM D638
Tensile Strength, Yield	12.0 MPa	1740 psi	ASTM D638
Film Elongation at Break, MD	375 %	375 %	ASTM D882
Film Elongation at Break, TD	720 %	720 %	ASTM D882
Elongation at Break	490 %	490 %	ASTM D638
Secant Modulus, MD	0.116 GPa	16.8 ksi	5%; ASTM D882
Secant Modulus, TD	0.122 GPa	17.7 ksi	5%; ASTM D882
Coefficient of Friction, Dynamic	0.60	0.60	ASTM D1894
Elmendorf Tear Strength, MD	7.80 g/micron	198 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	7.20 g/micron	183 g/mil	ASTM D1922
Dart Drop Test	150 g	0.331 lb	(method A); ASTM D1709
Film Tensile Strength at Break, MD	23.0 MPa	3340 psi	ASTM D882
Film Tensile Strength at Break, TD			ASTM D882

Mechanical Properties	21.0 MPa Metric	3050 psi English	Comments
Thermal Properties	Metric	English	Comments
Vicat Softening Point	98.0 °C	208 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	7.5 %	7.5 %	ASTM D1003
Gloss	62 %	62 %	45° - Gardner; ASTM D2457
	100 %	100 %	@ 60° Gardner; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

Processing Properties	Metric	English	Comments
Processing Temperature	155 - 165 °C	311 - 329 °F	Plasticizing Zone
	165 - 175 °C	329 - 347 °F	Mixture Zone
Feed Temperature	150 - 160 °C	302 - 320 °F	
Adapter Temperature	175 - 185 °C	347 - 365 °F	
Blow-up Ratio (BUR)	3.0	3.0	Recommended

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