

Petroquimica Triunfo Trithene® TS 9022 MDPE - Overwrap Packaging

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

Material Notes:

The Trithene TS 9022 resin is a medium-density polyethylene (MDPE) with good optical properties, excellent stiffness and processability, that warrants the production of thin films with good appearance, uniform thickness, and good sealing characteristics. The incorporated additive package confers appropriate coefficient of friction (COF), which fundamental for improved machineability in overwrap applications and in push-through type packaging equipment. This product complies with ASTM standard D1248-IIA3 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 automatic overwrap packaging of hygiene markets. Composition of multi-material structure laminated films for packaging of miscellaneous products. Films combination of good clarity with high stiffness. 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-9022-MDPE-Overwrap-Packaging.php

Physical Properties	Metric	English	Comments
Density	0.929 - 0.933 g/cc	0.0336 - 0.0337 lb/in³	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	14.0 MPa	2030 psi	ASTM D638
Film Elongation at Break, MD	380 %	380 %	ASTM D882
Film Elongation at Break, TD	675 %	675 %	ASTM D882
Elongation at Break	520 %	520 %	ASTM D638
Secant Modulus, MD	0.150 GPa	21.8 ksi	5%; ASTM D882
Secant Modulus, TD	0.160 GPa	23.2 ksi	5%; ASTM D882
Coefficient of Friction, Dynamic	0.12	0.12	ASTM D1894
Elmendorf Tear Strength, MD	6.60 g/micron	168 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	4.50 g/micron	114 g/mil	ASTM D1922

Dart Drop Test Mechanical Properties	100 g Metric	0.221 lb English	(method A): ASTM D1709 Comments
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
Vicat Softening Point	102 °C	216 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	11.5 %	11.5 %	ASTM D1003
Gloss	90 %	90 %	@ 60° Gardner; ASTM D2457

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

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