

## Petroquímica Triunfo Tritheva® TN 8093 EVA Copolymer

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate

### Material Notes:

The Tritheva TN 8093 resin is a fractional MI copolymer of Ethylene-Vinyl Acetate (EVA), developed to meet the multi-layer and blending film applications where are required high strength, with high toughness, and excellent optical properties. These packages may be produced by coextrusion and/or lamination in combination with many others materials as PVdC, PA, EVOH, etc. The resin has flexibility at low temperature that enhances applications in frozen food bags. Additionally, this resin is designed to provide a low temperature heat seal to itself or many other structure and composition commonly used in flexible packaging applications. The melt properties of this resin allow it to be processed on blow film equipments over a wide range of film thickness and blow-up ratios. Tritheva TN 8093 can be use as base polymer for the manufacture of film for greenhouses and both large and small tunnels, with excellent thermal effect at low thicknesses. More detailed information about agricultural film applications and light stabilization recommended, please contact Petroquímica Triunfo representative. This product complies with the requirements of Brazilian and corresponding legislation of Mercosul and it is in conformity with FDA Regulations 21 CFR 177.1350, to contact with foodstuff. Applications: Food packaging (meat, cheese), coextruded heat seal layer in food packaging. High clarity film. Base polymer for agricultural film (greenhouse). Stretch hood film. 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\\_Petroquímica-Triunfo-Tritheva-TN-8093-EVA-Copolymer.php](http://www.lookpolymers.com/polymer_Petroquímica-Triunfo-Tritheva-TN-8093-EVA-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.934 g/cc	0.0337 lb/in <sup>3</sup>	ASTM D1505
Vinyl Acetate Content	11 - 13 %	11 - 13 %	
Thickness	50.0 microns	1.97 mil	
Melt Index of Compound	0.30 - 0.50 g/10 min @Load 2.16 kg, Temperature 190 °C	0.30 - 0.50 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	26.0 MPa	3770 psi	ASTM D638
Tensile Strength, Yield	5.00 MPa	725 psi	ASTM D638
Film Elongation at Break, MD	460 %	460 %	ASTM D882
Film Elongation at Break, TD	760 %	760 %	ASTM D882
Elongation at Break	660 %	660 %	ASTM D638
Secant Modulus, MD	0.0530 GPa	7.69 ksi	5%; ASTM D882
Secant Modulus, TD	0.0550 GPa	7.98 ksi	5%; ASTM D882

Mechanical Properties	Metric	English	Comments
Elmendorf Tear Strength, MD	28.0 g/micron	71.9 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	5.90 g/micron	150 g/mil	ASTM D1922
Dart Drop Test	425 g	0.937 lb	(method A); ASTM D1709
Film Tensile Strength at Break, MD	32.0 MPa	4640 psi	ASTM D882
Film Tensile Strength at Break, TD	33.0 MPa	4790 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	96.0 °C	205 °F	ASTM D3418

Optical Properties	Metric	English	Comments
Haze	1.7 %	1.7 %	ASTM D1003
Gloss	132 %	132 %	@ 60° Gardner; ASTM D2457

Processing Properties	Metric	English	Comments
Processing Temperature	140 - 155 °C	284 - 311 °F	Plasticizing Zone
	155 - 170 °C	311 - 338 °F	Mixture Zone
Feed Temperature	140 - 150 °C	284 - 302 °F	
Adapter Temperature	170 - 190 °C	338 - 374 °F	
Blow-up Ratio (BUR)	3.0	3.0	Recommended

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China