

## Petroquimica Triunfo Tritheva® TN 2007 EVA Copolymer

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate

**Material Notes:**

The Tritheva TN 2007 resin is an Ethylene-Vinyl Acetate copolymer (EVA), developed to meet the multi-layer packaging needs 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. This product allows for radiation treatment (crosslinking) and a combination with different materials ensures low water vapor and oxygen transition rates (high barrier). These features are specially important to increase the shelf life of fresh food, and other products. The resin has flexibility at low temperature that enhances applications in frozen food bags, and 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. 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: High transparency coextruded packaging. Shrinkable packaging for food stuff, such as: cheese, meat, ham, and frozen goods. 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-Tritheva-TN-2007-EVA-Copolymer.php](http://www.lookpolymers.com/polymer_Petroquimica-Triunfo-Tritheva-TN-2007-EVA-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.933 g/cc	0.0337 lb/in <sup>3</sup>	ASTM D1505
Vinyl Acetate Content	9.0 - 11 %	9.0 - 11 %	
Thickness	50.0 microns	1.97 mil	
Melt Index of Compound	0.50 - 0.80 g/10 min @Load 2.16 kg, Temperature 190 °C	0.50 - 0.80 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	22.0 MPa	3190 psi	ASTM D638
Tensile Strength, Yield	6.00 MPa	870 psi	ASTM D638
Film Elongation at Break, MD	350 %	350 %	ASTM D882
Film Elongation at Break, TD	730 %	730 %	ASTM D882
Elongation at Break	720 %	720 %	ASTM D638
Secant Modulus, MD	0.0620 GPa	8.99 ksi	5%; ASTM D882
Secant Modulus, TD	0.0610 GPa	8.85 ksi	5%; ASTM D882

<b>Film Tensile Strength at Break, MD Mechanical Properties</b>	<b>29.0 MPa Metric</b>	<b>4210 psi English</b>	<b>ASTM D882 Comments</b>
Film Tensile Strength at Break, TD	25.0 MPa	3630 psi	ASTM D882

<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Melting Point	99.0 °C	210 °F	ASTM D3418

<b>Optical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Haze	2.3 %	2.3 %	ASTM D1003
Gloss	82 %	82 %	45° - Gardner; ASTM D2457
	130 %	130 %	@ 60° Gardner; ASTM D2457

<b>Processing Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
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