Petroquimica Triunfo Tritheva® TN 2020 EVA Copolymer

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate

Material Notes:

The Tritheva TN 2020 resin is a Ethylene-Vinyl Acetate copolymer (EVA) developed to mostly meet the needs of the multi-layer packaging segment produced by coextrusion and/or lamination processes. The structures produced with TN 2020 and PVdC or PA allow radiation treatment and present low rates of water vapor and oxygen permeation, which together ensure a longer shelf life for the food packed in this film. Since it presents an exceptional weldability, this product meets the requirements for automatic or semi-automatic lines of cutting, welding, and/or packaging (with or without vacuum-packed process). Tritheva TN 2020 resin has excellent performance during the extrusion operation, thermal stability, and a low consumption of energy for its processing, rendering to package production a dimensional uniformity and excellent visual properties with high transparency and gloss that enhance the printing and surface finish of the packaging. 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: Shrinkable packaging for food stuff, such as: cheese, meat, ham, salami and other processed meats. Packaging for frozen products.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-2020-EVA-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.931 g/cc	0.0336 lb/in³	ASTM D1505
Vinyl Acetate Content	8.0 - 9.0 %	8.0 - 9.0 %	
Thickness	50.0 microns	1.97 mil	
Melt Index of Compound	1.7 - 2.3 g/10 min @Load 2.16 kg, Temperature 190 °C	1.7 - 2.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	ASTM D2240
Tensile Strength at Break	19.0 MPa	2760 psi	ASTM D638
Tensile Strength, Yield	7.00 MPa	1020 psi	ASTM D638
Film Elongation at Break, MD	485 %	485 %	ASTM D882
Film Elongation at Break, TD	725 %	725 %	ASTM D882
Elongation at Break	700 %	700 %	ASTM D638
Secant Modulus, MD	0.0670 GPa	9.72 ksi	5%; ASTM D882

Mechanical Properties	Metric	English	Comments
Secant Modulus, TD	0.0640 GPa	9.28 ksi	5%; ASTM D882
Film Tensile Strength at Break, MD	25.0 MPa	3630 psi	ASTM D882
Film Tensile Strength at Break, TD	22.0 MPa	3190 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	100 °C	212 °F	ASTM D3418
Vicat Softening Point	79.0 °C	174 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	1.8 %	1.8 %	ASTM D1003
Gloss	140 %	140 %	@ 60° Gardner; ASTM D2457

Processing Properties	Metric	English	Comments
Processing Temperature	135 - 150 °C	275 - 302 °F	Plasticizing Zone
	145 - 165 °C	293 - 329 °F	Mixture Zone
Feed Temperature	135 - 140 °C	275 - 284 °F	
Adapter Temperature	165 - 185 °C	329 - 365 °F	
Blow-up Ratio (BUR)	3.0	3.0	Recommended

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