Tritheva® TN 8093

Ethylene Vinyl Acetate Copolymer

Petroquimica Triunfo

Message:

Tritheva®TN 8093 is an ethylene vinyl acetate copolymer (EVA) material. This product is available in Latin America and is processed by film extrusion or co-extrusion.
Tritheva®The main features of TN 8093 are:
high molecular weight
Good processability
accessible food
Good dimensional stability
Impact resistance
Typical application areas include:
Movie
Agriculture
food contact applications
application of coating

General Information	
Features	Good dimensional stability High molecular weight Impact resistance, good Workability, good Definition, high Compliance of Food Exposure
Uses	Films Laminate Agricultural application
Agency Ratings	ANVISA n°105/99 FDA 21 CFR 177.1350
Forms	Particle
Processing Method	Film extrusion Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.934	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.40	g/10 min	ASTM D1238
Vinyl Acetate Content	11.0 - 13.0	wt%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638

Yield, molding	5.00	MPa	ASTM D638
Fracture, molding	26.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	660	%	ASTM D638
Films	**Nominal Value**	**Unit**	**Test Method**
secant modulus			ASTM D882
5% secant, MD: 50 µm, blown film	53.0	MPa	ASTM D882
5% secant, TD: 50 µm, blown film	55.0	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 50 µm, blown film	32.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	33.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	460	%	ASTM D882
TD: Broken, 50 µm, blown film	760	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	430	g	ASTM D1709B
Thermal	**Nominal Value**	**Unit**	
Melting Temperature	96.0	°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss			ASTM D2457
45, 50.0 µm, blown film	84		ASTM D2457
60, 50.0 µm, blown film	132		ASTM D2457
Haze (50.0 µm, Blown Film)	1.7	%	ASTM D1003
Additional Information			
Film properties taken from 50 µm blown film produced on a 50 mm extruder, L/D=25, die gap=1.0 mm, BUR=2.3:1Melt Mass-Flow Rate, ASTM D1238, 190°C/2.16 kg: 0.30 to 0.50 g/10 min			
Extrusion	**Nominal Value**	**Unit**	
Cylinder Zone 1 Temp.	140 - 150	°C	
Cylinder Zone 2 Temp.	140 - 155	°C	
Cylinder Zone 3 Temp.	155 - 170	°C	
Adapter Temperature	170 - 190	°C	
Extrusion instructions			
Recommended Blow Up Ratio: 2-3:1			

Recommended distributors for this material

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