Tritheva® TN 2020

Ethylene Vinyl Acetate Copolymer

Petroquimica Triunfo

Message:

Tritheva®TN 2020 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 2020 are:
accessible food
Good dimensional stability
Heat resistance
Transparency
Typical application areas include:
packing
food contact applications
application of coating

General Information	
Features	Good dimensional stability Definition, high Thermal stability, good Compliance of Food Exposure
Uses	Laminate Food packaging
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	0.931	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Vinyl Acetate Content	8.0 - 9.0	wt%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, Compression Molded)	85		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, molding	7.00	MPa	ASTM D638
Fracture, molding	19.0	MPa	ASTM D638

Tensile Elongation (Break, Compression Molded)	700	%	ASTM D638
Films	**Nominal Value**	**Unit**	**Test Method**
secant modulus			ASTM D882
5% secant, MD: 50 µm, blown film	67.0	MPa	ASTM D882
5% secant, TD: 50 µm, blown film	64.0	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Broken, 50 µm, blown film	25.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	22.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	490	%	ASTM D882
TD: Broken, 50 µm, blown film	730	%	ASTM D882
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	79.0	°C	ASTM D1525
Melting Temperature	100	°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss			ASTM D2457
45, 50.0 µm, blown film	86		ASTM D2457
60, 50.0 µm, blown film	140		ASTM D2457
Haze (50.0 µm, Blown Film)	1.8	%	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: 1.7 to 2.3 g/10 min

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	135 - 140	°C
Cylinder Zone 2 Temp.	135 - 150	°C
Cylinder Zone 3 Temp.	145 - 165	°C
Adapter Temperature	165 - 185	°C

Extrusion instructions

Recommended Blow Up Ratio: 2-3:1

Recommended distributors for this material

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