Ethylene-Vinyl Acetate Copolymer TN2020

Description:

TN2020 is an Ethylene-Vinyl Acetate (EVA) copolymer, developed to meet the needs of the segment of multi-layer packages produced by coextrusion and/or lamination processes. Multilayer structures with TN2020 can be irradiated to improve physical proprieties, such as adhesion between layers, puncture resistance and hot sealing. 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). It has excellent performance during extrusion operation, thermal stability, and a low consumption of energy during its processing. It allows production of packages with dimensional uniformity and excellent visual properties. High transparency and gloss enhance the printing and surface finish of the packages.

Additives

Antioxidant

Application:

Shrinkable coextruded films for food packaging, such as: cheese, meat, ham, salami and other processed meats.

Packaging for frozen products.

Control Properties:

	ASTM Method	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	2.0
Vinyl-Acetate Content	Braskem1	%	8.5

Typical Properties:

Plaque Properties^a

	ASTM Method	Units	Values
Density	D 1505	g/cm3	0.931
Tensile Strength at Break	D 638	MPa	19
Elongation at Break	D 638	%	700
Hardness	D 2240	Shore A / D	93 /45
Melting Point	D 3418	О°	100
Vicat Softening Temperature at 10 N	D 1525	О°	79

Blow Film Properties^b

	ASTM Method	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	31/24
Elongation at Break (MD/TD)	D 882	%	650/1100
2% Secant Modulus (MD/TD)	D 882	MPa	76/79
Dart Drop Impact Strength	D 1709 (Method B)	gF	175
Elmendorf Tear Strength (MD/TD)	D 1922	gF	200/220
Haze	D 1003	%	3
Gloss - Angle 45°	D 2457	-	90





Data Sheet



(MD = Machine Direction; TD = Transversal Direction)

(1) Braskem test method available for customers.(a) Compressed molded plate. Method ASTM D 4703.

(b) 50 µm thickness film, processed in a 50 mm blow film line with barrier screw. 25:1 L/D and a 1,0 mm die gap at a 2,3: 1 blow up ratio.

Recommended Processing Conditions:

Blow Film Extrusion

-Temperature Profile:.....from 135 to 185°C

-Melt Temperature:.... from 165 to 185°C

-Blow up Ratio:....from 2.0 to 3.0:1

-Die Gap:.....1.0 mm

The optimum processing conditions will vary according to the type of equipment used and cannot be considered as performance guarantee.



