

Ethylene-Vinyl Acetate Copolymer TN2006

Description:

TN2006 is an Ethylene-Vinyl Acetate (EVA) copolymer with good mechanical properties, high flexibility and toughness even at low temperatures. It has excellent optical and heat selability properties. Additionally, this product has good water vapor barrier. The rheological properties allow processability in tubular film extrusion equipment, being able to be coextruded in combination with many other materials.

Additives

Antioxidant

Application:

Heat seal layer in coextruded and laminated films.

Food packaging.

Hood stretch films.

Base polymer for agricultural films.

Geomembranes.

Control Properties:

	ASTM Method	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	0.70
Vinyl-Acetate Content	Braskem1	%	18.0

Typical Properties:

Plaque Properties^a

	ASTM Method	Units	Values
Density	D 1505	g/cm3	0.940
Tensile Strength at Break	D 638	MPa	33
Elongation at Break	D 638	%	680
Hardness	D 2240	Shore A / D	89/39
Melting Point	D 3418	°C	90
Vicat Softening Temperature at 10 N	D 1525	°C	70

Blow Film Properties^b

	ASTM Method	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	38/33
Elongation at Break (MD/TD)	D 882	%	820/ 700
2% Secant Modulus (MD/TD)	D 882	MPa	39/38
Dart Drop Impact Strength	D 1709 (Method B)	gf	950
Elmendorf Tear Strength (MD/TD)	D 1922	gF	210/320
Haze	D 1003	%	2
Gloss - Angle 45°	D 2457	-	92

(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 150 to 190°C
- Mass Temperature:..... from 175 to 190°C
- Blow up Ratio:.....from 2.0 to 3.0:1
- Die Gap:.....1.0 to 1.5 mm

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

