

Ethylene-Vinyl Acetate Copolymer CN8092

Description:

CN8092 is an Ethylene-Vinyl Acetate copolymer (EVA) which has a molecular structure that provides easy processability, adhesion, resilience, low hardness and good moisture and gas barrier properties. It is a non-halogen resin with excellent thermal stability, low oligomers content and low influence on organoleptic properties of the products. The rheological properties of this resin allow processability in extrusion equipments for cast and tubular films.

Additives

Antioxidant

Application:

- Base resin for production of compounds for cap liners in carbonated beverages.
- Compounds.
- Master batches.

Control Properties:

	ASTM Method	Units	Values
Melt Flow Rate (190/2.16)	D 1238	g/10 min	8.5
Vinyl-Acetate Content	Braskem1	%	15.5

Typical Properties:

Plaque Properties^a

	ASTM Method	Units	Values
Density	D 1505	g/cm ³	0,937
Tensile Strength at Yield	D 638	MPa	4.7
Tensile Strength at Break	D 638	MPa	17
Elongation at Break	D 638	%	720
1% Secant Modulus	D 638	MPa	72
Hardness	D 2240	Shore A / D	91 / 44
Melting Point	D 3418	°C	90
Vicat Softening Temperature at 10 N	D 1525	°C	62

(1) Braskem test method available for customers.

(a) Compressed molded plate. Method ASTM D 4703.

Recommended Processing Conditions:

Blow Film Extrusion

Melt Temperature: 135 to 150°C

Blow Up Ratio - BUR 2 – 3:1

Die Gap 0.8 – 1.0 mm

Note: Higher temperatures can be required for coextrusion with other materials.



Cast Film Extrusion

Melt Temperature: 205 to 210°C

Chill Roll Temperature 25 °C

Extrusion Coating

Melt Temperature: 225°C

Note: The melt temperatures in both cases, should be less than 230°C, because in higher temperatures it is possible to occur thermal degradation and generate corrosives products. After processing the extruder should be purged with LDPE or a purge compound before stopping it.

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

Final Remarks:

1. This resin meets the requirements for "Ethylene-Vinyl Acetate Copolymers", as defined in 21 CFR, section **177.1350** issued by FDA – Food and Drugs Administration in force on the date of publication of this specification. The additives present are covered in appropriate regulation by FDA.
2. The information presented in this Data Sheet reflects typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.
3. In some applications, Braskem has developed tailor-made resins to reach specific requirements.
4. In case of doubt regarding utilization, or for other applications, please contact our Technical Assistance.
5. For information about safety, handling, individual protection, first aids and waste disposal, please see MSDS. CAS Registry number: 24937-78-8.
6. The mentioned values in this report can be changed at any moment without Braskem previous communication.
7. Braskem does not recommend this grade for packages, parts or any kind of product manufacture that will be used for storage or contact with solution that will have internal contact with human body.
8. The content of this Data Sheet replaces previous revisions published for this product.
9. This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.

