


Datasheet

08/02/2019

Ethylene-Vinyl Acetate Copolymer VA0410F
Description:

VA0410F is an Ethylene-Vinyl Acetate (EVA) copolymer resin, specially designed for film applications that require excellent mechanical properties, transparency, high gloss, good sealing properties and flexibility even at low temperatures. The melt properties of this resin allow it to be processed in blow film equipment.

Additives:

Antioxidant

Processing Conditions:

It is recommended that the processing temperature does not exceed 230°C.

Applications:

High transparency films with high mechanical resistance, Cooled and frozen food packaging, Coextrusion, Food packaging

Processes:

Film Extrusion - General Use

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	ASTM D 1238	g/10 min	0.35
Vinyl-Acetate Content	BASTM D 5594-98	%	10

Typical Properties - EVA:

Plaque Properties (a)

Feature	Method	Units	Values
Density	D 1505 / D 792	g/cm ³	0.935
Melting Point	D 3418	°C	98
Vicat Softening Temperature at 10 N	D 1525	°C	87

(1) Braskem test method available for customers. (a) Test specimens prepared from compression molded plate according to ASTM D 4703. (b) Compression molded 2 mm thickness, 0.3 mm notched-plaques; 100% Igepal; 50°C.

Typical Properties - EVA (film):

Blow Film Properties (b)

Feature	Method	Units	Values
Tensile Strength at Break (MD/TD)	D 882	MPa	39/33
Elongation at Break (MD/TD)	D 882	%	500/1100
1% Secant Modulus (MD/TD)	D 882	MPa	95/100
Dart Drop Impact Strength	D 1709 (B)	gF	540
Elmendorf Tear Strength (MD/TD)	D 1922	gF	130/190
Haze	D 1003	%	2.5
Gloss - Angle 45°	D 2457	-	91

(MD = Machine Direction; TD = Transversal Direction) (1) Braskem test method available for customers. (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.

Final Remarks:

- This resin meets the requirements for ethylene-vinyl acetate copolymers as defined in 21 CFR, section 177.1350 issued by FDA - Food and Drug Administration in force on the date of publication of this specification. The additives present are covered in appropriate regulation by FDA.
- 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.
- 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 Area.
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. This resin does not contain the substance Bisphenol A (BPA, CAS # No. 80-05-7) in its composition.

