

Ethylene-Vinyl Acetate Copolymer VA4018R**Description:**

VA4018R is a resin based on ethylene-vinyl acetate copolymer. The product is easily cross-linkable and also shows high compatibility with other thermoplastics resins, inorganic fillers and pigments. Compositions with VA4018R show high flexibility and fatigue resistance. Cross-linked compound has outstanding abrasion resistance and has a high friction coefficient.

Applications:

Compounds for Injection of Auto Parts, Window frames profiles for civil construction, Automotive profiles (sealing system), Bottles with "soft touch" appearance, Extended midsole and soles in sports soles and compact soles, Sporting Goods and Gifts, Conveyor belts

Processes:

Injection Molding, Extrusion, Compression Molding, Rotational Molding

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	ASTM D 1238	g/10 min	5.0
Vinyl-Acetate Content	ASTM D 5594-98	%	23

Typical Properties - EVA:

Plaque Properties (a)

Feature	Method	Units	Values
Density	D 1505 / D 792	g/cm ³	0.931
Hardness	D 2240	Shore A	71
Melting Point	D 3418	°C	72
Vicat Softening Temperature at 10 N	D 1525	°C	70

(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.

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 Drug 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 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.