



Ateva® 1813

EVA COPOLYMER

Product Description

This resin is commonly used for high quality microcellular crosslinked foam applications.

| Resin Properties | Typical Value | SI Unit | Imperial | Unit | Test Method |
|-----------------------------|---------------|-------------------|----------|-------------------|------------------------------|
| Vinyl Acetate | 18 | % | 18 | % | PTM-39 |
| Melt Index (190 °C/2.16 kg) | 1.6 | g/10 min. | 1.6 | g/10 min. | ASTM D1238 |
| Density | 937 | kg/m ³ | 0.937 | g/cm ³ | ASTM D1505 ASTM D1928 Proc A |
| Antioxidant | No | | No | | |

Thermal Properties

| | | | | | |
|-----------------------|----|----|-----|----|------------|
| DSC Melt Temp | 88 | °C | 190 | °F | ASTM D3418 |
| Vicat Softening Point | 64 | °C | 147 | °F | ASTM D1525 |

Molded Plaque Properties

| | | | | | |
|------------------------------|-----|-----|------|-----|------------------------------|
| Tensile Strength at Break | 20 | MPa | 2900 | psi | ASTM D638 Type IV (50mm/min) |
| Elongation at Break | 740 | % | 740 | % | |
| Hardness - Shore A | 93 | -- | 93 | -- | ASTM D2240 |
| Hardness - Shore D | 37 | -- | 37 | -- | |
| Flexural Modulus (1% Secant) | 48 | MPa | 6960 | psi | ASTM D790 |

Processing Information

This polymer may be processed on conventional extrusion equipment. It is recommended that the melt temperature be kept below 210°C as decomposition can occur at higher temperatures.

Regulatory Compliance

Contact Celanese Customer Service for information about food contact or other regulatory compliance.

Disclaimer: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colorants or other additives may cause significant variations in data values.

Properties of parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use.

To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products.

It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication.

Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards.

We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please contact EVA.techservice@celanese.com for additional technical information. Please read and comply with the recommendations outlined in the Materials Safety Data Sheets (MSDS), which may be obtained by calling Customer Services at 1-800-661-3663.