



Products for Polymer Compounding

Directly mined and processed from Veneta USA's sister company Caolines de Vimianzo (short Cavisa - Veneta Mineraria group), the largest European extraction plant of high-quality Mica and Kaolin located in Vimianzo, Galicia, Spain.

Micavi

Mica Muscovite: Potassium aluminum silicate with lamellar shape.

Thanks to new technologies, Micavi is delaminated in strong, flexible, extremely thin and high aspect-ratio particles. Micavi is available in over 40 selections, including new micronized and customized grades. These product contains less than 1% quartz (respirable).

According to tests made in collaboration with the University of Padua, Italy, Micavi enhances many properties of different plastic materials.

- Increases tensile, flexural strength (highest improvement of any other mineral) and modulus
- Increases Heat Deflection Temperature (HDT) (highest improvement of any other mineral)
- Improves chemical resistance
- Improves UV resistance
- Increases barrier properties
- Improves scratch resistance
- Reduces warpage
- Reduces shrinkage
- Reduces coefficient of linear thermal expansion (CLTE)
- Improves electrical resistance properties
- Lightweight solution to suppress sound and vibration

The platy structure of mica increases the tortuosity factor of the compound, reducing gas permeability. Additional 5% w/w of Micavi reduces permeability of Co₂ by 20% in PET, polymer that already has excellent barrier properties.

