



BV-ME-PS2

Description

Broadview Technologies proudly introduces BV-ME-PS2, a new 2-phase anhydride system. BV-ME-PS2 is a pre-catalyzed anhydride type epoxy curative that has been engineered to provide low viscosity, high Tg, and damage tolerance.

BV –ME-PS2 works by phase separation. During the polymerization process the soft components separate out, to form pockets of rubber-like shock absorbing regions within the matrix. The balance of the matrix remains the pure high Tg material.

The rubber-like portions, as well as the high Tg areas are composed of cross-linked epoxy-anhydride. The cross-link density is not lowered which results in an unparalleled combination of strength and toughness within the matrix.

Phase Separation technology yields the performance that the addition of rubber particles typically provides, without the associated high viscosity. BV-ME-PS2 has a high glass transition temperature and high impact resistance.

Typical Applications

- Filament Winding
- Pultrusion
- Electrical Potting Applications

Typical Values

Appearance	Clear, light green liquid
% Anhydride	97% Min.
% Free Acid	1% Max.
Refractive Index	1.5043
Viscosity, 25°C	235 cps
Specific Gravity	1.2064

Typical Formulation

Parts by Weight	
Bis A Epoxy	100 pbw
BV-ME-PS2	88 pbw

Cure 1 hour at 80°C plus 3 hrs at 150°C plus 1 hour at 180°C

Properties

Hardness (shore D)	95
Flex. Modulus	450,000
Strain	10.5
Yield	12.4
Glass Transition Temperature	160°C



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