



BV-2PS-1

Description

Broadview Technologies proudly introduces BV 2PS-1, a new 2-phase anhydride system. BV-2PS-1 is a pre-catalyzed anhydride type epoxy curative that has been engineered to provide a combination of high Tg, high flexural strength and damage tolerance.

BV 2PS-1 works by phase separation. During the polymerization process the flexible and rigid portions become somewhat incompatible and phase separate. This results in a high Tg matrix that contains pockets of rubber like, shock absorbing regions. Both the high Tg and the rubber like portions are composed of only cross- linked epoxy-anhydride. The cross-link density is not lowered which results in an unparalleled combination of strength and toughness.

Typical Applications

- Composite and potting applications
- Pultrusion
- Filament winding
- Encapsulated parts that have to withstand thermal cycling and vibration stress

Specifications

Appearance	Clear, light green liquid
% Anhydride	97% Min.
% Free Acid	1% Max.
Refractive Index	1.4790 – 1.4795
Viscosity, 25°C	60-90 cps

Typical Formulation

Parts by Weight

Bis A Epoxy	100 pbw
BV 2PS-1	85 pbw

Cure 1 hour at 80°C plus 3 hrs at 120°C

Properties

Hardness (shore D)	93
Flex. Modulus	430,000
Strain	10.5
Yield	12.4

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