



BV-2PS-2

Description

Broadview Technologies proudly introduces BV 2PS-2, a new 2-phase anhydride system. BV-2PS-2 is a pre-catalyzed anhydride type epoxy curative that has been engineered to provide fast curing with a combination of high Tg, high flexural strength and easy processing in filament winding, pultrusion and molding applications. BV 2PS-2 works by phase separation. During the polymerization process the slippery and rigid portions become somewhat incompatible and phase separate. This results in a high Tg matrix with a non-stick surface coating. Both the high Tg and the non-stick 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 ease demolding and pultrusion.

Typical Applications

- Composites, potting and molding
- Pultrusion – with low pull forces, high speed and good surface quality
- Filament winding – with high quality id surface

Specifications

Appearance	Clear, light green liquid
% Anhydride	97% Min.
% Free Acid	1% Max.
Refractive Index	1.4790 – 1.4795
Viscosity, 25°C	45-55 cps

Typical Formulation

Parts by Weight

Bis A Epoxy	100 pbw
BV 2PS-1	83 pbw

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

Properties

Tg	140°C
Hardness (shore D)	94
Flex. Modulus	450,000
Strain	11.0
Yield	12.2

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