

SLOW INFUSION EPOXY – A-298/B-226

| Description: | Slow Infusion Epoxy is a two-component, very infusion and VARTM processes. Slow Infusio carbon fiber laminate, fiberglass and Kevlar v parameters are enhanced due to Slow Infusio system is not designed to be used in open mo | n Epoxy was formulated to p vhile also allowing for maxim on Epoxy's low mixed viscosit | rovide for rapid saturation of um open time. Processability |
|-------------------------|---|---|---|
| Handling Properties: | RESIN VISCOSITY, cP RESIN DENSITY, lb./gal HARDENER VISCOSITY, cP HARDENER DENSITY, lb./gal COLOR DENSITY, lb./gal MIX RATIO, pbv (pbw) MIXED VISCOSITY, cP GEL TIME (200g), min WORKING TIME*, min *The working time varies according to the temper Note: Above viscosities/densities measured @ 77 | | ASTM D 2196 ASTM D 792 ASTM D 2196 ASTM D 792 ASTM D 792 ASTM D 2196 ASTM D 2471 |
| Physical Properties: | TENSILE STRENGTH, psi TENSILE MODULUS, psi ELONGATION @ BREAK, % COMPRESSIVE STRENGTH, psi COMPRESSIVE MODULUS, psi FLEXURAL STRENGTH, psi FLEXURAL MODULUS, psi HARDNESS, Shore D Cure Cycle: 24 hours @ Room Temperature + 8 ho (without fiber reinforcement). | 10,200 289,000 4.00 13,500 276,000 17,600 1,073,000 87D burs @ 180°F. Test specimens fo | ASTM D 638 ASTM D 638 ASTM D 638 ASTM D 695 ASTM D 695 ASTM D 790 ASTM D 790 ASTM D 2240 |
| Thermal Properties: | Tg DMA Peak Tan Delta, °F (°C)* Tg DMA Onset Storage Modulus, °F (°C)* Heat Deflection Temperature, °F (°C) Tg DSC Ultimate *1 Hz, 3°C per minute. Cure Cycle: 24 hours @ Room Temperature + 4 ho | 218 (104) 182 (83) 183 (84) 202 (94.3) purs @ 250°F. | ASTM E 1640 ASTM E 1640 ASTM D 648 ASTM E 1356 |

The storage temperature of Slow Infusion Epoxy will greatly affect the ease of mixing, application and curing time. For best results, Slow Infusion Epoxy should be stored at 70-80 °F (21-27 °C). High-performance epoxy resins may crystallize with repeated exposure to low temperatures or thermal cycling during storage. If this occurs, warm the resin to 140-160° F and stir to dissolve any crystals or solidified material. Mix RESIN WITH (hardener) for 3 minutes using a Jiffy Mixer and a slow speed drill. Mix at slow speed (less than 500 rpm) to avoid air entrainment. When adding part B to part A, be sure to scrape the sides of the hardener (part B) container in order to remove all of the hardener. This is essential to maintain proper mix ratio. DO NOT mix more material than can be used within the stated working time. REMEMBER - you will have less working time at higher temperatures.

SAFETY PRECAUTIONS

Avoid breathing of vapors. Forced local exhaust is recommended to effectively minimize exposure. NIOSH approved, organic vapor respirators and forced exhaust are recommended in confined areas, or when conditions (such as heated polymers, sanding) may cause high vapor concentrations. **DO NOT WELD ON, BURN OR TORCH ON OR NEAR, ANY EPOXY MATERIAL. HAZARDOUS VAPOR IS RELEASED WHEN AN EPOXY IS BURNED.**

FOR INDUSTRIAL USE ONLY

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