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UVA4000 Two Part Epoxy System Encapsulation and Potting Compound

DESCRIPTION:

UVA4000 is a low viscosity, two part Epoxy system designed for applications which require an "overcure" or skinning of the epoxy with UV light and then a final curing of the deeper or shadowed resin, which will occur at room temperature or may be accelerated with a mild heat. **UVA4000** finds applications in potting, encapsulation, lamination and fast tack adhesive applications. *UV light must be applied to the product within 7 minutes after mixing; otherwise the reaction goes completely at room temperature.*

TYPICAL PROPERTIES:

Part A, Resin:

Color: Water Clear
Viscosity: 1200 cps
Specific Gravity: 1.12

Part B, Hardener:

Color: Water Clear
Viscosity: 400 cps
Specific Gravity: 0.95

Mixed:

Color: Water Clear
Viscosity: ~600 cps
Specific Gravity: 1.06

Mix Ratio:

By Volume: 100 : 50
By Weight: 100 : 43

Shelf Life: 3 months from date of manufacture

Performance Properties

Gel Time in 100 gram mass: 4 hours

Cure depth using Fusion F-300 D bulb 1.6" above prime focus at 10 ft/min: 10 mm

Cured Hardness: 80 Shore D

Tensile Strength: 7,300 psi

Elongation: ~5%

200 Executive Drive • Waterloo, Indiana 46793 • Office: (260) 837-7833 • Fax: (260) 837-7834 • www.star-technology.com

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Refractive Index: 1.5470

Water Vapor Transmission Rate at 60°C: 0.707 gm/m² · 24 hours/cm at 60°C

[0.6 mm film, ASTM E96, Method E]: 0.342 gm/m² · 24 hours/cm at 23°C

Coefficient of Thermal Expansion [CTE]: 4.2 x 10⁻⁵ u/u/°C [20°C to 75°C]

Dielectric Strength [ASTM D149-97a]: 469 Volts / mil at 1/8" sample thickness

Dielectric Constant at 25°C:

| | |
|---------|------|
| 1 kHz | 2.15 |
| 10 kHz | 2.11 |
| 100 kHz | 2.07 |

Dissipation Factor at 25°C:

| | |
|---------|--------|
| 1 kHz | 0.0145 |
| 10 kHz | 0.0123 |
| 100 kHz | 0.0129 |