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BLUEBOND™

UV-6422TX

UV/LED CURE ACRYLATED URETHANE

TECHNICAL DATASHEET

NOVEMBER 2024

PRODUCT DESCRIPTION

BLUEBOND™ UV-6422TX is a UV cure, form-in-place (FIP) gasketing sealant formulated for fuel cells, underwater enclosures, and high-temperature sealing applications requiring a low compression set. UV-6422TX has good adhesion to plastics, electroplated plastics, and metal surfaces and exhibits superior heat, water, and chemical resistance.

Applications

- FIP Gasket
- Fuel Cell
- High Temperature Sealing

Features

- Thixotropic
- Low Compression Set
- Water Resistant
- High Acid/Base Resistance

Substrates

- Metals
- Glass
- Plastics

Packaging

- Syringes
- Liters
- Pails

TYPICAL PROPERTIES OF UNCURED MATERIAL

| Property | Value |
|-----------------|-----------------------|
| Chemical Class | Urethane Acrylate |
| Appearance | Clear/Slightly Cloudy |
| Odor | Mild Odor |
| Viscosity, 25°C | 15,000-25,000 |
| Density g/cc | 1.10 |

TYPICAL PROPERTIES OF CURED MATERIAL

| Property | Value |
|---------------------------------------|------------------------|
| Hardness | A-10 |
| Glass Transition Temperature (Tg), °C | 10 |
| Linear Shrinkage, % | 1.8 |
| Compression Set, % (70°C, 22°C) | 15 |
| Modulus of Elasticity, psi | 20 |
| Volume Resistivity, Ω-cm | 1.0 x 10 ¹² |

UV CURE INFORMATION

| Property | Value |
|---------------------------------------|--------------------------------------|
| Minimum Intensity, mW/cm ² | 250 |
| Optimum Wavelength, nm | 365, 405 |
| Optimum Cure Conditions | 3-5 seconds (25 mW/cm ²) |

Directions for Use:

1. This product is light sensitive; exposure to daylight, UV light and artificial lighting should be kept to a minimum during storage and handling.
2. The product should be dispensed from applicators with black feedlines.
3. For best performance bond surfaces should be clean and free from grease.
4. Cure rate is dependent on lamp intensity, distance from light source, depth of cure needed or bond line gap and light transmittance of the substrate through which the radiation must pass
5. Cooling should be provided for temperature sensitive substrates such as thermoplastics.
6. Plastic grades should be checked for risk of stress cracking when exposed to liquid adhesive.
7. Excess uncured adhesive can be wiped away with organic solvent (e.g. Acetone).
8. Bonds should be allowed to cool before subjecting to any service loads

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling. Shelf life is 12 months from date of manufacture in unopened container.

Optimal Storage:

25°C (+/- 10°C). Material removed from containers may be contaminated during use. Do not return product to the original container. Epoxyset cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact Epoxyset info@epoxyset.com or by phone at +1 (401)-726-4500

DISCLAIMER: All data given here is offered as a guide to the use of these materials and not as a guarantee of their performance. The user should evaluate their suitability for own purposes. Properties are typical and should not be used in preparing specifications. Statements are not to be construed as recommendations to infringe any patent.