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BLUEBOND™ UV-8675

UV/LED CURE ACRYLATED URETHANE

TECHNICAL DATASHEET **MARCH 2023**

PRODUCT DESCRIPTION

UV-8675 is primarily designed for bonding rigid or flexible PVC and polycarbonate, while not inducing stress cracking under typical molded stress levels. It enables easy assembly of components with close fitting tolerances (i.e. joining polycarbonate to flexible PVC tubing), and is recommended for applications involving small gaps less than 0.25mm. It has also shown excellent adhesion to a wide variety of substrates including glass, many plastics and most metals. Suitable for use in the assembly of disposable medical devices.

Applications

- Polycarbonate to PVC tubing
- CCM Assembly
- Plastic Assembly

Features

- Low Viscosity
- Fast Cure Time
- High Bond Strength
- Reduced Surface Tack

Substrates

- Polycarbonate
- PVC
- Aluminum
- Glass

Packaging

- Syringes
- Liters
- Pails

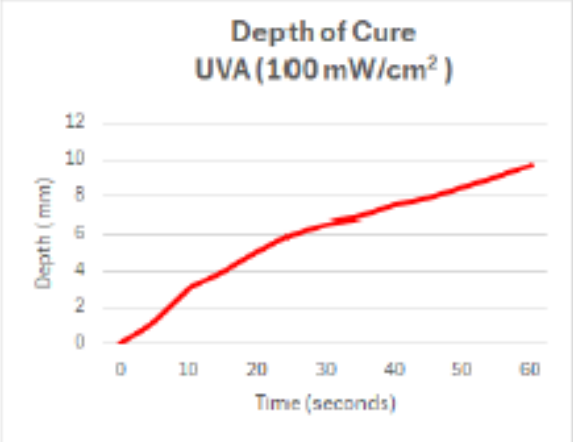
TYPICAL PROPERTIES OF UNCURED MATERIAL

Property	Value
Chemical Class	Urethane Acrylate
Appearance	Transparent Liquid
Odor	Mild Odor
Viscosity, 25°C	2000-4000
Density g/cc	1.10

TYPICAL PROPERTIES OF CURED MATERIAL

Property	Value
Hardness	D-65
Glass Transition Temperature (Tg), °C	25
Tensile Modulus, psi	100,000
Tensile Strength, psi	3500
Elongation, %	280
Volume Resistivity, Ω-cm	8.0×10^{14}

UV CURE INFORMATION	
Property	Value
Minimum Intensity, mW/cm^2	100
Optimum Wavelength, nm	365, 405
Optimum Cure Conditions	Refer to Chart Below



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