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BLUEBOND™

UV-8601R

UV/LED CURE ACRYLATED URETHANE

TECHNICAL DATASHEET

DECEMBER 2024

PRODUCT DESCRIPTION

BLUEBOND UV-8601R is a low viscosity, light curing acrylic adhesive that bonds well to a wide variety of substrates. This product cures to create a tough and flexible bond. Once fully cured, UV-8601R exhibits excellent resistance to vibration and impact. This product requires direct light exposure during cure. Because of the variability of different UV/LED light sources, it is suggested that the user test and specify intensity and exposure time. This product will cure in the presence of UV/LED at ideal wavelengths of 365nm or 405nm.

Applications

- Glass Sealing/Bonding
- Plastic Bonding
- Electronics Coating

Features

- Tough Bond/Seal
- Non-odorous
- Fast Cure Time
- Reduced Surface Tack

Substrates

- Glass
- Aluminum
- Steel

Packaging

- Syringes
- Liters
- Pails

TYPICAL PROPERTIES OF UNCURED MATERIAL

Property	Value
Chemical Class	Urethane Acrylate
Appearance	Clear Liquid
Odor	Mild Odor
Viscosity, 25°C	5000-8000
Density g/cc	1.15

TYPICAL PROPERTIES OF CURED MATERIAL

Property	Value
Hardness	A-70
Glass Transition Temperature (Tg), °C	20
Tensile Modulus, MPa	4.3
Tensile Strength, psi	8000
Water Absorption (24 hr soak, 25°C)	1.11
Volume Resistivity, Ω-cm	1.0 x 10 ¹⁴

UV CURE INFORMATION

Property	Value
Minimum Intensity, mW/cm ²	250
Optimum Wavelength, nm	365, 405
Optimum Cure Time	4-6 sec (250 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.