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FLASHBOND™

UV-8601R

(Formerly TW-064101)

UV/LED CURE ACRYLATED URETHANE

TECHNICAL DATA

MARCH 2023

Product Description

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

- Electronics
- Encapsulation
- Sealant

FEATURES

- RoHS & REACH Compliant
- Tough & Flexible Bond
- High Bond Strength
- Fast UV/LED Cure

SUBSTRATES

- Metals
- Ceramics
- Glass
- Plastics

PACKAGING

- Syringes
- Bulk

TYPICAL PROPERTIES OF UNCURED MATERIAL

Property	Value
Chemical Class	Urethane Acrylate
Appearance	Clear Liquid
Odor	Mild to no order
Viscosity @ 25°C, cps	5000-8000
Specific Gravity	1.15

TYPICAL PROPERTIES OF CURED MATERIAL

Property	Value
Glass Transition Temperature (Tg)	20°C
Hardness, Shore	A-70
Tensile Modulus, MPa	4.3
Water Absorption, 24 hr, %	1.11
Operating Temperature Range, °C	-55 to 150
Volume Resistivity, Ω-cm	1×10^{12}

***All properties given are typical values and are not intended for use in preparing specifications.**

CURE OVERVIEW

Optimal Cure Conditions	Wavelength: 365nm, 405nm Intensity: 250 mW/cm ²
Optimal Cure Time*	4-6 seconds

*Due to the variability of different UV/LED light sources, it is suggested that the user test and specify intensity and exposure time.

SHELF LIFE, STORAGE

20°-25°C 1 Year from Date of Manufacture

MATERIAL IS LIGHT SENSITIVE. CONSULT SDS FOR SAFE HANDLING RECOMMENDATIONS.

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