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BLUEBOND™

UV-070219

UV/LED CURE ACRYLATED URETHANE

TECHNICAL DATASHEET

DECEMBER 2024

PRODUCT DESCRIPTION

UV-070219 is a low viscosity, fast curing, urethane acrylate that bonds well to engineered plastics and metal based substrates. This product requires direct UV exposure during cure. Because of the variability of different UV light sources it is suggested that the user test and specify UV intensity and exposure time. This material is specially formulated to have reduced surface tack due to oxygen inhibition. UV-070219 is a low viscosity version of UV-8509R.

Applications

- PET Clamshells
- Connector Seals
- Plastic Bonding

Features

- Low Viscosity
- Non-odorous
- Fast Cure Time
- Reduced Surface Tack

Substrates

- PET
- Polycarbonate
- Aluminum
- Glass

Packaging

- Syringes
- Liters
- Pails

TYPICAL PROPERTIES OF UNCURED MATERIAL

Property	Value
Chemical Class	Urethane Acrylate
Appearance	Translucent Liquid
Odor	Mild Odor
Viscosity, 25°C	800-1200
Density g/cc	1.05

TYPICAL PROPERTIES OF CURED MATERIAL

Property	Value
Hardness	A-50
Glass Transition Temperature (Tg), °C	20
Linear Shrinkage, %	1.7
Tensile Strength, psi	7500
Elongation, %	200
Volume Resistivity, Ω-cm	1.0 x 10 ¹⁴

UV CURE INFORMATION

Property	Value
Minimum Intensity, mW/cm ²	150
Optimum Wavelength, nm	365, 405
Optimum Cure Time	4-6 sec (150 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.