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FLASHBOND™

UV-8504E

UV CURE EPOXY

TECHNICAL DATA

SEPTEMBER 2019

Product Description

UV-8504E is a low viscosity, fast curing, light curing epoxy adhesive that offers excellent strength wetting properties. UV-8504E cures to a high Tg, rigid polymer with excellent adhesive to metals, ceramics, and glass. This product requires direct light exposure during cure. UV-8504E can cure fully in 30 seconds using optimal cure conditions. Due to the variability of different UV/LED light sources, it is suggested that the user test and specify intensity and exposure time. This product will cures best in the UVA wavelengths (315-365nm).

APPLICATIONS

- Electronics
- Encapsulation
- Sealant

FEATURES

- RoHS & REACH Compliant
- Excellent Chemical Resistance
- High Bond Strength
- Fast UV Cure

SUBSTRATES

- Metals
- Ceramics
- Glass

PACKAGING

- Syringes
- Bulk

TYPICAL PROPERTIES OF UNCURED MATERIAL

Property	Value
Chemical Class	Cationic Epoxy
Appearance	Clear
Viscosity, 20 RPM @ 25°C, cps	600 to 800
Specific Gravity	1.1

TYPICAL PROPERTIES OF CURED MATERIAL

Property	Value
Glass Transition Temperature (Tg), °C	125
Hardness, Shore	D-78
Ultimate Tensile Strength, PSI	5,000
Elongation at Break, %	8
Operating Temperature Range, °C	-55 to 200
Volume Resistivity, Ω-cm	1 x 10 ¹⁴

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

CURE OVERVIEW

Optimal Wavelength	315, 365nm
Optimal Intensity	100-300 mW/cm ²

SHELF LIFE, STORAGE

18 ± 10°C 1 Year DOM

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

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