



718 Park East Drive, Woonsocket, RI 02895 USA
 Phone: +1 (401)-726-4500
 Email: info@epoxyset.com www.epoxyset.com

FLASHBOND™

UV-5403S

UV CURE EPOXY

TECHNICAL DATA **NOVEMBER 2021**

Product Description

UV-5403S is a filled, low shrinkage, light curing epoxy adhesive that offers low CTE and high bonds strength. UV-5403S cures to a high bond strength polymer with excellent adhesive to metals, ceramics, and glass. This epoxy was specifically designed as a glob top encapsulant for smart card applications and encapsulations of chip modules. UV-5403S is free of solvents, has high ionic purity, and is resistant to moisture and humidity. This epoxy cures quickly under LED and UVA light.

APPLICATIONS

- Glop Top
- Dam & Fill
- General Encapsulant

FEATURES

- RoHS & REACH Compliant
- Halogen Free (IEC 61249-2-21)
- High Bond Strength
- Fast UV/LED Cure

SUBSTRATES

- Metals
- Ceramics
- Glass

PACKAGING

- Syringes
- Bulk

TYPICAL PROPERTIES OF UNCURED MATERIAL	
Property	Value
Chemical Class	Cationic Epoxy
Appearance	Off White
Viscosity, 25°C, cPs	5,000 to 8,000
Density, g/mL	1.37

TYPICAL PROPERTIES OF CURED MATERIAL	
Property	Value
Glass Transition Temperature (Tg), °C	72
Hardness, Shore	D-78
Ultimate Tensile Strength, PSI	5,000
Elongation at Break, %	1-3
Operating Temperature Range, °C	-55 to 150
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	LED 365nm, UVA
Optimal Intensity	100-300 mW/cm ²

*Cure time is dependent on light intensity. Test specimens were cured for 30 seconds at 150 mW/cm² under a 365nm LED light.

SHIPPING, SHELF LIFE, STORAGE

STORE AT 2-10°C, SHELF LIFE: 6 MONTHS
 MATERIAL IS LIGHT & HEAT SENSITIVE. CONSULT SDS FOR SAFE HANDLING RECOMMENDATIONS.

THIS MATERIAL IS SOLD FOR INDUSTRIAL USE ONLY

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