

STAR Technology

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UVE-4105T UV Cure Epoxy Resin

UVE-4105T is a member of Star Technology's line of flexible and impact resistant UV curable epoxy resins. **UVE-4105T** is a 100% solids product and contains no solvents or unreactive diluents. These resins may be cross linked via UV light in the 200 - 400 nm range. **UVE-4105T** also has a fluorescent tracer which allows for easy detection. UV light sources should have an effective radiated power of at least 100 mW/cm² [UV-A]. As with all of Star Technology's UV cure epoxy products, there are no problems with oxygen inhibition causing loss of cure at the surface of the adhesive. UV cure epoxy products have all the chemical resistance and tenacity of standard two part and heat cured epoxy compounds.

Typical Properties:

Viscosity: [RVT #5@10 RPM, 25°C]	13,000 cps typ.
Appearance:	Clear Liquid
Gel time [at 100mW/cm ²]:	30 seconds, typ. To 1/16" depth
Cured Shore D Hardness:	84
Tracer Absorption Wavelength (nm)	360
Tracer Reflection Wavelength (nm)	450
Tg (°C):	110
Coefficient of Thermal Expansion (26°C to 60°C) in/in/°C:	50x10 ⁻⁶
Volume Resistivity (ohm-cm):	1.2x10 ¹⁵
Elongation (%):	4
Tensile Strength (psi):	>8000
Lap Shear Strength (psi):	>1400
Compressive Strength (psi):	>30000

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