

UV Cure Silicone Encapsulant TUV7130 UT

LI-181004

PRODUCT DESCRIPTION

TUV7130 UT is a one-component, UV cure, silicone encapsulant which cures by UV irradiation. This product can be applied to electrical circuit boards that require a thin protective layer seal. Once cured this material forms a soft silicone rubber to protect electronic assemblies from mechanical shock.

KEY FEATURES

- ◆ UV cure for cycle time reduction
- ◆ Excellent high/ low temperature resistance: from -40°C to 200°C continuous operation
- ◆ Excellent electrical insulation properties
- ◆ Simple and easy-to-use one-component system
- ◆ Contains UV indicator for ease in inspection under black light

APPLICATIONS

- ◆ Insulating encapsulant for electrical and electronic parts
- ◆ Water-/ Dust-proofing encapsulant for PCB and electronic assemblies

TYPICAL PROPERTY DATA

(JIS K 6249)

UNCURED PROPERTIES		
Appearance		Semi-flowable, translucent
Viscosity (No.7/20rpm)	Pas	20
Viscosity (No.7/10rpm)	Pas	32
Thixotropic index		1.6
CURED PROPERTIES (5000mJ/cm ² by High Pressure Mercury Lamp)		
Appearance		Elastic rubber, translucent
Density (23°C)	g/cm ³	1.07
Hardness	(Type A)	25
Hardness	(Type E)	48
Volume resistivity	Ω·cm	1.0x10 ¹⁵
Dielectric strength	kV/mm	23
Dielectric constant (60Hz)		2.9
Dissipation factor (60Hz)		0.004

Typical property data values should not be used as specifications. Actual specification data will be provided with the certificate of analysis.

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CURE PROFILES

TUV7130 UT cures upon exposure to UV light, and its cure speed is affected by UV dosage and irradiance. The chart below can be used as reference using different UV cure equipment. Minimum recommended values:

System	Bulb Type	Dose (J/cm ²)			Irradiance (W/cm ²)		
		UVA	UVB	UVC	UVA	UVB	UVC
Microwave	H+ Bulb	2.0	1.6	0.75	1.65	1.35	0.65
Arc	H+ Bulb	2.4	2.3	0.65	0.45	0.40	0.11

Sample thickness is 1mm

TUV7130 UT is not chemically altered nor are the material properties changed when it's over exposed to UV radiation.

HANDLING AND SAFETY

- ◆ Thoroughly clean the substrate with a suitable solvent and dry completely
- ◆ Wear eye protection & protective gloves
- ◆ Maintain adequate ventilation in the work place at all times
- ◆ We recommend that you use all after opening

STORAGE

- ◆ TUV7130 UT is to be stored at 0-10°C
- ◆ Store in a cool, dry place out of direct sunlight.
- ◆ Keep out of the reach of children.

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