

127-41-50**UV CURABLE ANISOTROPIC CONDUCTIVE PRESSURE SENSITIVE ADHESIVE**

DESCRIPTION: 127-41-50 is a screen printable, UV curable, flexible, ultraviolet-cured anisotropic conductive pressure sensitive adhesive. This material can be used on a variety of substrates including but not limited to polycarbonate, treated and untreated polyesters, Kapton, epoxy/glass PC boards, glass, stainless steel, aluminum, and copper. The possible applications for 127-41-50 include electronic circuitry, conductive splicing of ribbon cables, PTF circuits, and electrical attachment of surface mounted devices. 127-41-50 is optimized for a 0.002" bondline.

ADVANTAGES:

- ❖ High peel strength
- ❖ Fast UV cure, no VOC
- ❖ Heat and humidity stable

PROPERTIES:

Color	Beige
Consistency	Thin liquid
Volume Resistivity (Ω -cm)	
(X, Y) Axis	1×10^{12}
(Z) Axis	0.0001
Solids Content (%)	100
Peel Strength (lb./in)	3 – 5
Shear Strength (min/lb.)	> 5
Specific Gravity	0.9 – 1.1
Coverage @ 1 mil. (in ² /g)	61

SUGGESTED HANDLING & CURING: Material is ready to use as received. Cure using a 200-300 watt/inch mercury vapor lamp. Speed of cure will vary depending upon available energy. Typical cure time ranges from a few seconds to 1 minute when work is positioned 6-10 inches from lamp. Faster curing can be accomplished by moving lamp closer to work or increasing lamp intensity. End user is advised to experiment with intensity, speed, and distance for optimal properties.

STORAGE: Shelf Life: 12 months at 25°C in unopened container.

SAFETY and HANDLING: Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.

Anisotropic adhesive guidelines: <https://server.creativematerials.com/technical-resources/Anisotropic-Adhesives-Guidelines.pdf>

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