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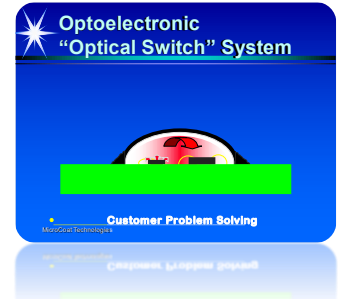
RoHS/WEEE, REACH,  
and Halogen Free



## Product

**MCT AJ294-1/AJ294-2C/W/B (Clear/White/Black)**

### SILICONE LIGHT PIPE SYSTEM for an OPTO-COUPLER on PCB or LEADFRAME



**DESCRIPTION:** MCT AJ294-1/AJ294-2 is a flexible, re-workable, non-conductive, silicone-based coating – A sister system to our **Opto-Coupler UV cure system**. The overall balance of peel strength, cohesion, and high temperature holding power provides a versatility that makes this product useful in a wide range of coating and bonding applications. This product is very resistant to flexing and creasing. Some applications for MCT AJ294-1/AJ294-2 include, but are not limited to, a coating for polyimide flexible circuits, polymer thick film circuitry, and semiconductor glob-top or MCM fill and attachments for stress-sensitive devices.

MCT AJ294-1/AJ294-2 is available in three colors clear white and black. It is one of the few non-conductive coatings that can bond/adhere to silicone substrates and surfaces. In addition, this material has been optimized for the MicroCoat assembly system for optocouplers on PCB or lead frames as an alternative to the MicroCoat UV cure system.

MCT AJ294-1/AJ294-2 is optimized for syringe dispense directly over die.

#### TYPICAL PROPERTIES:

	<b>AJ249-1</b>	<b>AJ249-2</b>
Viscosity (cps)	25,000	35,000
Thixotropic Index	4.1	4.5
Density	1.0-1.1	1.15
Color	Optically Clear, White, Black	

#### TYPICAL CURED PROPERTIES

Crease Resistance	Excellent
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-70 to +260
Volume Resistivity Ω/cm	2.5X10 <sup>15</sup>
Thermal Stability (°C)	Good to +325
Dielectric Strength Kv/mil	45
Modulus @ 100% Elongation	90-100 psi
Tensile Strength 25°C	800-900 psi
Elongation 25°C	180-195%
CTE	220-240 in/in x 10 <sup>-6</sup> /°C
Dielectric Constant @ 100KHz	2.52
Dielectric Breakdown per IEC 60093 Ω-cm	>2X10 <sup>15</sup>
Dissipation Factor @ 100KHz	0.001
Passes ASTM E595	Yes

**SUGGESTED HANDLING & CURING:** MCT AJ294-1/AJ294-2 is ready to use as supplied. The best properties, for most applications, result when cured for 30 minutes at 100°C or 5-10 minutes at 150°C. Good properties are obtained on a variety of substrates by curing at these temperatures. End-user is advised to experimentally determine the temperature and time best suited for individual applications.

**STORAGE:** Shelf life: 2-3 weeks at 25°C; or 6 months at 5°C; or 12 months at -10°C.

**SAFETY & HANDLING:** Use 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 the skin.

The information contained herein, is, to the best of our knowledge accurate. However, MicroCoat Technologies, LLC does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. The information contained herein is considered typical properties and is not intended to be used as specifications for our products. This information is offered solely to assist purchasers in selecting the appropriate products for purchaser's own testing. All products may present unknown hazards and should be used with the proper precautions. Although certain hazards are described herein and in the Material Safety Data Sheets, we cannot guarantee that these are the only hazards that exist. Repeated and prolonged exposure to epoxy resins can cause sensitization or other allergic responses.

REVISION DATE: 06/04/22 REVISION: F