JD-4993

Modified Polyurethane Conformal Coating

UL File No. E526815

Features

- One-component modified polyurethane conformal coating, low odour and environment friendly.
- Cure rapidly, fluorescent identification, convenient for visual inspection of coating appearance.
- High dielectric breakdown strength and insulation resistance including humid and harsh conditions.
- The cured film has good chemical resistance, and provides protection against mechanical stress, contaminants, moisture, dust and corrosive gases.
- No benzene, toluene, ethylbenzene and xylene in the solvent.
- Compliance with UL94 V-0 and RoHS Directive.

Physical Properties

Appearance	:		Amber Transparent Liquid
Viscosity	:	@25˚C, ISO 2555	40 ~ 80 cps
Density	:	@25˚C, ISO 2811	0.83 ~ 0.87 g/cc
Solid Content	:	ISO 3251	36 ~ 38 %
Tack Free Time	:		25°C x 10 mins
Full Cure Time	:		25°C x 16 hrs or 80°C x 30 mins
Thermal Shock	:	@-40˚C ~ +125˚C, 100 cycles	Pass
Cross Cut Test	:	@25˚C, GB 9286	Class 0
Flexbility(1 8 0 °)	:	@25˚C, IPC-TM-650	Pass
Permittivity	:	@25˚C, ASTM D 150	3.5
Dielectric Dissipation Factor	:	@25˚C, ASTM D 150	0.03
Dielectric Strength	:	@25˚C, ASTM D 115	105 kV/mm
Volume Resistivity	:	@25˚C, IEC 60464	1 x 10^{15} ohm · cm
Shelf Life	:	@25°C, Unopened	1 Year

Handling & Storage

- For high strength bonding, clean the contact surface to remove dust, grease and all other contaminants before applying the adhesive.
- JD-4993 can be applied by brushing, spraying and dispensing.
- Should be applied at room temperature, and if heated for curing, it should not exceed 90°C.
- Curing time can vary due to oven efficiency, ambient temperatures and the adhesive thickness applied.
- After the products are opened, use them up ASAP or spray nitrogen before resealing to prevent material deterioration.

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