

TECHNICAL DATA SHEET ELECTRA WD'ORTM ED8000 SERIES

DIELECTRIC PASTES FOR RIGID AND FLEXIBLE CIRCUITS

PRODUCT DESCRIPTION

ED8000 Dielectrics are a range of insulating pastes for use with Electrador conductors and resistors.

ED8000 Dielectrics are used in printed circuit cross-over applications where jumper printing is used to convert single-sided PCBs to double-sided or multilayer boards.

The **ED8000** range has products which are suitable for use on rigid, polyester, polyimide, polycarbonate or ABS substrates.

ED8000 Dielectrics are available for thermal and UV cure.

PRODUCT RANGE

ED8010	Thermal cure single-pack dielectric for rigid substrate
ED8020	UV cure single-pack dielectric for rigid substrate
ED8030	Thermal cure single-pack dielectric for <u>flexible</u> substrate
ED8040	UV cure single-pack dielectric for <u>flexible</u> substrate

PROCESSING

It is recommended to overprint two layers of dielectric for good insulation over irregular surfaces. Two layers of dielectric will reduce the risk of poor insulation caused by printing pin-holes.

ED8010 & ED8030 Thermal cure dielectrics

Printing: Pastes should be printed using a 55 to 77T polyester mesh. For applications requiring fine print

definition or tight resistance tolerances it is advantageous to use a 200 mesh stainless steel

screen as this will reduce distortion.

Curing: ED8010 (rigid substrate) 30 minutes at 150°C.

ED8030 (flexible substrate) 30 minutes at 80°C

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ED8020 & ED8040 UV cure dielectrics

Printing: Pastes should be printed using a 100 to 120T polyester mesh.

Cure: ED8020 (rigid substrate) 1500 to 2000 mJcm⁻²

ED8040 (flexible substrate) 1000 to 1500 mJcm⁻²

Effect of Dielectrics on resistance

Dielectric pastes may cause an increase in resistance of the conductor paste. It is important to check the resistance of the conductor in conjunction with the dielectric.

CLEANING:

All screens and utensils should be cleaned using SW100 or butyrolactone.

VISCOSITY:

ED8000 is supplied ready for use. If viscosity reduction is required, thermal pastes are to be reduced with ER7or butyrolactone and UV pastes with ERV3. No more than 5% reducer should be added otherwise print and cure properties maybe impaired.

SHELF-LIFE: Minimum 6 months at room temperature. Refrigeration is not necessary.

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PHOTRAK



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