

Technical Data Sheet



Product Type: Polymer Thick Film

Product Name: UVD5370GR



Solder Mask/ Covercoat

Description

UVD5370GR is a UV curable solder mask, covercoat, or dielectric designed for rigid substrates. UVD5370GR offers rapid cure combined with outstanding adhesion and resistance to solvents.

Key Benefits

- REACH¹ and RoHS² compliant
- UV curable
- High adhesion
- Chemically resistant

Typical Properties

Form:

Green thixotropic paste intended for screen printing

Viscosity:

10 – 30 Kcps; Brookfield HBT
Spindle #14 @ 50 rpm, 25 °C

Chemical Resistance:

Excellent solvent resistance.
Can be immersed for more than 15 minutes in halogenated hydrocarbons, acetone, and lower alcohols without degradation. Resistant to most dilute acids.

Thermal Stability/Solder Resistance:

Withstands molten solder (250 °C) up to 1 hour while exposed to an RMA type flux.

Coverage:

205 cm²/g @ 25 microns cured film thickness

Recommended Processing Guidelines

Printing:

250 – 280 mesh screen
0.5 mil emulsion
0.02 inch snap-off.

Curing:

200 W/sq. in. ultraviolet source cure time < 1 second

Thickness:

Cured: 25 microns

Thinner:

RV-825

Warranty:

Material guaranteed to meet specifications for 6 months from date of shipment

Storage:

Store in a dry location at 5 – 25 °C

DO NOT REFRIGERATE.

Allow paste to come to room temperature prior to opening. Spatulate well before using, as settling may occur during storage.

SPECIAL NOTE:

Some of these materials may show resistance shifts due to thermal storage. Stability baking has been shown to minimize this behavior.

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Legend:

1) REACH compliant according to the latest ** Annex XIV to Regulation (EC) of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH") by European Chemicals Agency and its subsequent amendments; the material does not contain any substance listed in Annex XIV.

2) RoHS compliant according to the latest ** Directives (European Union) of Restriction of Hazardous Substances ("RoHS") and its subsequent amendments (including the exceptions related to Pb)

3) Properties for single print of 25 microns.

4) I.R. measured with water drop present.

5) Keithley electrometer, 1M NaCl solution, 4 hour immersion. Heraeus 5260 epoxy conductor

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