

Polymers

PD5200 Black

Epoxy Insulator

Description:

PD5200 Black is a screen printable, single component, fast curing modified epoxy coating used for circuit protection and identification. This black cover coat, when properly cured, yields a chemically inert film which will not react with circuit components. PD5200 Black provides excellent adhesion to a variety of substrate materials.

● **Key Benefits:**

- RoHS compliant*
- REACH compliant**
- Screen printable
- Fast curing
- Yields a chemically inert film which will not react with circuit components

● **Typical Properties:**

Insulation Resistance:

> 1 x 10¹⁰ ohms

Dielectric Breakdown Voltage:

> 1000 volts/mil

Dielectric Constant:

> 15

Non-Volatile:

96% ± 2%

Viscosity:

70-140 Kcps, Brookfield HBT, SC4-14 spindle and 6R cup @ 10 rpm, 25°C.

● **Recommended Processing Guidelines:**

Printing:

280 mesh stainless steel screen
0.5 mil emulsion

Curing:

30-60 minutes @ 150°C

Cured Thickness:

40-50 microns per layer with 2 layers recommended

Thinner:

RV-221

Warranty:

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

Storage:

Refrigerate at 5°C - 10°C to ensure proper performance of shelf life.
Allow paste to come to room temperature prior to opening.
Spatulate well before using.

Handling & Precautions:

Use in a well ventilated area.
In general, avoid contact with skin.
Wash with soap and water.

For cleanup of uncured epoxy material, a one-to-one mixture of Methyl Ethyl Ketone (MEK) and Toluene is recommended.

YY0911.7

***RoHS Statement**

Compliant according to Directives (European Union) No 2011/65/EC of Restriction of Hazardous Substances ("RoHS") and its subsequent amendments (including the exceptions No. 5 and 7 of the EU Directive e.g. related to Pb bounded in a glass matrix as oxide PbO)

****REACH Statement**

Compliant according to the Commission Regulation (EU) No 143/2011 of Feb. 17, 2011 amending Annex XIV to Regulation (EC) No 1907/2006 of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH") by European Chemicals Agency.

Preliminary Data Sheet

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The descriptions and engineering data shown here have been compiled by Heraeus using commonly-accepted procedures, in conjunction with modern testing equipment, and have been compiled as according to the latest factual knowledge in our possession. The information was up-to date on the date this document was printed (latest versions can always be supplied upon request). Although the data is considered accurate, we cannot guarantee accuracy, the results obtained from its use, or any patent infringement resulting from its use (unless this is contractually and explicitly agreed in writing, in advance). The data is supplied on the condition that the user shall conduct tests to determine materials suitability for a particular application.

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