TECHNICAL DATASHEET

Vitralit® 1688

Vitralit® 1688 was especially designed for chip coating and glob topping. It is based on epoxy resins. The product features excellent purity and low ionic concentration (Na +, K+, Cl- <5ppm).
The product is often used in Smart Card applications and is proved to run on machines from Mühlenbauer, Ruhlamat and several other manufacturer.
Vitralit® 1688 offers the chip coating compounds' advantages that are typical for the 1st Generation plus improved adhesion as well as increased moisture and temperature resistance. Grain size distribution is approx. 12 µm.

shelf life:
in closed original packing unit at 5°C without UV- irradiation -- 6 months --

Technical Data

Color	translucent
Resin	epoxy
Filler	approx. 45% quartz

UNCURED PROPERTIES

Viscosity(25 °C / Brookfield LVT /Sp. / UPM	PE-Norm P001	3500 to 4000
Flash point [°C]	PE-Norm P050	> 93
Density [g/cm³]	PE-Norm P003	approx. 1.5

Curing

UV(UV-A 60mW/cm²(Thickn.st. 0,5mm)): [sec.]	PE-Norm P002	30
Depth of Cure [mm]	PE-Norm P033	3

CURED PROPERTIES

Temperature Resistance [°C]	PE-Norm P030	-40 to 150
Hardness [Shore D]	PE-Norm P052	65 to 75
Tg [°C] (DSC)	PE-Norm P009	40 to 45
Dielectric Constant [10kHz]	PE-Norm P054	3.4
Thermal conductivity [W/m·K]	ASTM 1530	0,8

Adhesives and more...

Attention: Datasheet isn´t decontroled

Otherwise the guidelines for application, storage etc. in our general Data Sheet Vitralit® are valid.

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Vitralit UV- epoxy, filled, UV curing:

- storage at max. 5°C
- before using acclimate to room temperature in original packing unit
- applicable with syringe, quench bottle, dispenser, automatic dispenser…
- surfaces to be bonded should be free of dust, oil, fat or any other dirt
- curing wave- length from 315nm to 400nm

Curing time depends on:

- emission spectrum and intensity of emitter but min. 30mW/cm²
- distance from emitter to substrate
- emitter intensity aging
- layer thickness
- material influence like reflection, adsorption, UV permeability …

Adhesives and more...

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