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Metering & Mixing
Dispensing Systems

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Vitralit® 1722 – Technical data sheet

Vitralit® 1722 is a cationic curing epoxy resin. It features excellent adhesion properties with most thermoplastics and FR4. Especially for plastics that in connection with Vitralit® UV-acrylics have a tendency to develop tension fractures, the utilization of Vitralit® 1722 is recommended. The product is suitable for the coating of printed circuit board material.

Shelf life: 6 months at 0-10ºC without UV-radiation)
(In closed original containers)

Technical Data

Colour:		Translucent
Resin:		Epoxy

Uncured Properties

Viscosity: (Brookfield LVT/25°C) [mPa*s]	PE-Norm P001	5000 to 8000
Flash Point °C	PE-Norm P050	> 100
Density [g/cm³]	PE-Norm P003	1.14 approx.
Refractive Index [nD20]	PE-Norm P 018	1.544

Curing

UV(UV-A 60mW/cm² Thickn.st.0.5mm: [Sec]	PE-Norm P002	90
Full Strength (Hours)	PE-Norm P032	24
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	70 to 76
Shrinkage [%]	PE-Norm P031	1.8
Water Absorption (mass-%)	PE-Norm P053	< 1.4
Tg DSC (°C)	PE-Norm P009	140 to 50
CTE [ppm/K]	PE-Norm P017	85
Dielectric Constant [10kHz]	PE-Norm P054	3.3
Thermal conductivity [W/m.K]	ASTM 1530	0.4
Dielectric Strength [kV/mm]	PE-Norm P055	8.3

Mechanical Data

Elongation at Break [%]	PE-Norm P060	4 approx.

Vitralit Epoxy, unfilled, 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
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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 …

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