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**Adhesives
and more...**

TECHNICAL DATASHEET

Vitralit® 1508

Vitralit® 1508 is a UV/thermal curable cationic epoxy adhesive, which has been developed especially for using in the fibre optics. The remarkable features of Vitralit® 1508 are low damping, excellent thin-film properties and low stress.

Moreover, Vitralit® 1508 has a very high Tg-value and is excellently chemical-resistant.

Vitralit® 1508 has to be stored at 5°C in the refrigerator.

Shelf life:

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

Technical Data

Color	transparent
Resin	epoxy
Filler	approx. 15% nano sized particles

UNCURED PROPERTIES

Viscosity (Brookfield LVT/25°C) [mPa·s]	PE-Norm P001	350 to 850
Flash point [°C]	PE-Norm P050	> 100
Density [g/cm³]	PE-Norm P003	approx. 1.12
Refractive Index [nD20]	PE-Norm P018	1.5027

Curing

UV(UV-A 60mW/cm² bei 0,5mm): [sec.]	PE-Norm P002	90
Thermal Curing 110°C :[Min]	PE-Norm P035	60
Full Strength [hours]	PE-Norm P032	after 24
Depth of Cure [mm]	PE-Norm P033	3

CURED PROPERTIES

Temperature Resistance [°C]	PE-Norm P030	-40 to 175
Hardness [Shore D]	PE-Norm P052	80 to 90
Shrinkage [%]	PE-Norm P031	1.3
Water Absorption [mass-%]	PE-Norm P053	< 0.5
Tg [°C] (DSC)	PE-Norm P009	> 140
CTE [ppm/K]	PE-Norm P017	40
Thermal conductivity [W/m·K]	ASTM 1530	0,2
Dielectric Strength [kV/mm]	PE-Norm P055	16.7

Adhesives
and more...

Instructions of use of filled Vitralit UV epoxy:

- store at max. 5 °C
- warm up to room temperature before usage
- dispensable, filled systems are use at machines from e.g. Mühlbauer, Schiller, Esec or Ruhlamat
- surface must be clean and dry and free from fat and parting agents
- for curing UV- light at wavelength from 315 - 400 nm is needed.

The curing time depends on:

- * emission spectrum and energy of emitter, min 30mW/cm²
- * distance to substrate
- * ageing of emitter
- * layer thickness
- * material influence like reflection, adsorption and UV- diaphaneity

This product is dual curable, i.e. deep layers thickness or shadow areas can be thermal cured afterwards.