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**Adhesives
and more...**

TECHNICAL DATASHEET

Vitralit® 1507

Vitralit® 1507 is a cationic UV curing epoxy resin, which has been developed especially for fibre technic. One of the remarkable features of Vitralit® 1507 is low damping.

Moreover, Vitralit® 1507 has a very high Tg-result and is excellently chemical-resistant.

Vitralit® 1507 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. 20% nano sized particles

UNCURED PROPERTIES

Viscosity (Brookfield LVT/25°C) [mPa·s]	PE-Norm P001	750 to 1250
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
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 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
Dielectric Strength [kV/mm]	PE-Norm P055	16.7

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 ...