

Vitralit® 2665 is a cationic UV- and thermally curable underfiller with nanoscalic filling material.

Special characteristics are:

- Low ionic concentration (chloride, fluoride, potassium, sodium <10 ppm)
- Medium viscosity for gap sizes starting at 50 µ.
- Low CTE based on SiO₂ nanofiller
- Extreme reliability when applied in aviation or space technology

Vitralit® 2665 can be stored at +5°C for 6 months.

shelf life:

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

Technical Data

Color	transparent
Resin	epoxy
Filler	approx. 24% SiO ₂ -Nanopartikel

UNCURED PROPERTIES

Viscosity (Brookfield LVT/25°C) [mPa*s]	PE-Norm P001	3000 to 5000
Flash point [°C]	PE-Norm P050	> 95

Curing

UV(UV-A >100mW/cm ² Thickn.st. 1mm): [sec.]	PE-Norm P002	120
Thermal Curing 120°C :[Min]	PE-Norm P035	10
Full Strength [hours]	PE-Norm P032	after 24

CURED PROPERTIES

Temperature Resistance [°C]	PE-Norm P030	-55 to 175
Hardness Shore D	PE-Norm P052	70 to 80
Water Absorption [Gew-%]	PE-Norm P053	< 0,34
TG DSC [°C]	PE-Norm P009	80 to 90
Thermal Expansion [ppm/K]	PE-Norm P017	27

Our data sheets have been compiled to the best of our knowledge. The information included in our data sheets is exclusive information for the intended user and describes characteristics, with no declaration of commitment. We recommend trials in order to confirm that our products satisfy the particular application requirements. For an additional technical consultation, please contact our RD department. In general, for guarantee claims, please refer to our standard terms and conditions.

Adhesives
and more...

Mechanical Data

E-Modul [MPa]

[PE-Norm P056]

3425

UV-epoxy, filled, dual- curable:

- storage at max. 5°C
- before using acclimate to room temperature in original packing unit
- applicable with dispenser, automatic dispenser... e.g. such systems are applied with machines from Mühlenbauer, Schiller, Esec or Ruhamat.
- 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 ...

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

Adhesives
and more...