TECHNICAL DATASHEET

Vitralit® 1671 is a stable dam material on an epoxy resin basis, which can be UV-A cured as well as thermally cured at low temperatures. The dam can be cured wet on wet with the filler material. Vitralit® 1671 features high ionic purity (Na+, K+, Cl- <5ppm), good heat conductivity and low humidity absorption properties. If stored properly in the refrigerator at (+ 5 °C/no UV radiation exposure), the product has a shelf-life of 6 months in closed original packaging.

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

Technical Data

Color grey
Resin epoxy
Filler approx. 35% Quarz <10µm

UNCURED PROPERTIES

Viscosity (Brookfield LVT/25°C) [Pa·s]
Flash point [°C]
Density [g/cm³]
UV(UV-A 60mW/cm²): [sec.]
Visible Light (LED Power Pen) : [sec.]

CURED PROPERTIES

Temperature Resistance [°C]
Hardness [Shore D]
Volume resistivity [Ohm x cm]
Shrinkage [Vol-%]
Water Absorption [mass-%]
Tg [°C] (DSC)
CTE [ppm/K]
Dielectric Constant [10kHz]
Dielectric Strength [kV/mm]

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 R&D department. In general, for guarantee claims, please refer to our standard terms and conditions.

Vitralit® 1671

Adhesives and more...

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TECHNICAL DATASHEET

Vitralit® 1671

Mechanical Data

Lap Shear Strength (Alu/Alu) [MPa]
[PE-Norm P013] approx. 10.23

Lap Shear Strength (Steel/Steel) [MPa]
[PE-Norm P013] approx. 13.21

Elongation at Break [%]
[PE-Norm P060] approx. 1.67

Tensile Stress [MPa]
[PE-Norm P060] approx. 34.15

E-Modul [MPa] 3499
[PE-Norm P056]

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

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

XP.10.114
KATRIN.FUCHS
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