

TECHNICAL DATASHEET

Vitralit® 1691 is a uv- as well as thermally-curing, black dyed Glob-Top substance. It is known for it's high ionic purity (Na+ < 10 ppm, K+ < 10 ppm, Cl- < 10 ppm) and shows extrem temperature resistance.

Compared to the customary fillers Vitralit® 1691 offers a fast uv- surface fixation. The following short post curing process with radiation implies, that there is no limit to the layer strength. Under perfect storage conditions (+5° C/ no uv- radiation), kept in closed original containers, Vitralit® 1691 can be stored for about six months.

shelf life:

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

Technical Data

Color Resin Filler UNCURED PROPERTIES		black epoxy approx. 50% quartz
Viscosity (Brookfield LVT/25°C) [Pa*s] Flash point [°C] Density [g/cm³]	PE-Norm P001 PE-Norm P050 PE-Norm P051	280 to 310 > 100 approx. 1.5
Curing UV(UV-A 70mW/cm ² OF trocken): [sec.] Thermical Curing 110°C :[Min] Full Strength [hours] Depth of Cure [mm]	PE-Norm P002 PE-Norm P035 PE-Norm P032 PE-Norm P033	120 2 24 1
CURED PROPERTIES Temperature Resistance [°C] Hardness Shore D Shrinkage [Vol-%] Water Absorption [Gew-%] TG DSC [°C] Thermal Expansion [ppm/K] Dielectric Constant [10kHz] Thermal conductivity [W/mK]	PE-Norm P030 PE-Norm P052 PE-Norm P031 PE-Norm P009 PE-Norm P017 PE-Norm P054 ASTM 1530	-40 to 180 80 to 90 1.4 < 0,2 100 to 120 75 3.4 0,6

Our data sheets have been compiled to the best of our knowledge. The information included in our data sheets is exclusive information for the tended 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...

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

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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 a applied with machines from Mühlenbauer, Schiller, Esec or Ruhlamat.
-	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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Adhesives

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