



Sole UK Distributors Of
REINHARDT-TECHNIK
Metering, Mixing &
Dispensing Systems



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Technical Data Sheet

VITRALIT 1690

VITRALIT 1690 is a UV and thermally curing black dyed glob top compound. It is known for its high ionic purity (Na+<10ppm, K+<10ppm, <10ppm) and its extraordinary temperature resistance. Compared to other potting compounds Vitralit 1690 demonstrates rapid surface fixation. Using the following thermally post-curing process, there are no limitations to the layer thickness. When stored properly (+5°C/no UV radiation) in closed original boxes Vitralit 1690 can be stored for 6 months.

VITRALIT 1690 can be cured by the application of UV light, heat or a combination of both. Its dense, black colour provides protection against photo-wiping of micro processor cards and permits laser marking processors.

Technical Data

Colour	Black
Resin	Epoxy
Filler	Approx. 50% Quartz

Uncured Properties

Viscosity (Brookfield LVT/25°C)	80,000 to 100,000 mPas
Specific Gravity	1.5 g/cm ³
Flash Point	> 100°C
Density	1.5g/cm ³

Curing

UV (UV-A 70mW/cm ²)	30 seconds
Final strength	After 24 hours
Thermal Cure 105°C	30 minutes

Cured Properties

Hardness Shore D	80 to 90
Temperature Rating	-40 to +180°C
TG DSC	>100-120°C
Thermal Expansion	75 ppm/K
Thermal Conductivity	0.6 W/mK

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