



Sole UK Distributors Of
REINHARDT-TECHNIK
 Metering, Mixing &
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Technical Data Sheet

VITRALIT 1600 LV Black

VITRALIT 1600LV Black is a UV hardening epoxy resin, specifically developed for the use as a chip module coating. Its primary use is in the coating of chip modules for use in smart card applications. It can also be used for the coating of micro-electronic processor chips. **1600LV Black** is compatible for use with VITRALIT 1670D Dam-Material for use on larger size micro-electronic processor chips, where dam and fill techniques are required. **Vitalit 1600LV Black** has a very low ionic content (NA + < 5ppm; K + < 5ppm; Cl- < 5ppm) and a very high Tg value with excellent chemical resistance. **1600LV Black** has a dual cure catalyst system and can be cured by the application of UVA, heat or a combination of both.

Vitalit 1600LV Black has a low filler settlement rate and a particle size distribution maximum of 150 µm.

Technical Data Uncured Properties

Colour		Black
Resin		Epoxy
Viscosity (Brookfield LVT/25°C)	PE-Norm P001	5,000 to 6,000 mPas
Specific gravity	DIN 51757	1.43 g/cm ³
Flash Point	DIN 51755	> 100°C

Curing

UV (UV-A60mW/cm ²)	PE-Norm P002	30 seconds
Thermal curing 105°C	PE-Norm P035	30 minutes
Full strength	PE-Norm P032	24 hours

Technical Data Cured Properties

Hardness Shore D	PE-Norm P030	83 - 93
Temperature rating	DIN ISO 53505	-40 to 180°C
Shrinkage	PE-Norm PO31	< 1.4%
Water Absorption	DIN EN ISO 62	0.25%
TG DSC	DSC Mettler	> 150°C
Dielectric constant	DIN 53483	3.4 10khz

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