



UK DISTRIBUTORS OF  
**REINHARDT-TECHNIK**  
 Metering & Mixing  
 Dispensing Systems



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**Vitralit® 4731 – Technical data sheet**

Vitralit® 4731 is a UV/visible light curable material that bonds to a variety of substrates including metal, ceramic, glass and many plastics. The cured product is optically clear and resistant to yellowing. Vitralit® 4731 will cure to a tack free surface.

**Shelf life:**

Store in original, unopened containers for 6 months at max. 25°C

**Technical Data**

Colour	Transparent
Resin	Acrylate

**Uncured properties**

Viscosity (Brookfield LVT/25°C) [mPa·s]	PE-Norm P001	900 to 1500
Flash point [°C]	PE-Norm P050	> 93
Density [g/cm³]	PE-Norm P003	approx. 1.1
Refractive Index [nD20]	PE-Norm P018	1.471

**Curing**

UV(UV-A 60mW/cm² Thickn. 0,05mm): [sec.]	PE-Norm P002	2
Visible Light (PC bonding in 0,05mm) : [sec.]	PE-Norm P037	10
Full Strength [hours]	PE-Norm P032	12

**Cured properties**

Temperature Resistance [°C]	PE-Norm P030	-40 to 120
Hardness [Shore D]	PE-Norm P052	20 to 40
Shrinkage [%]	PE-Norm P031	2.9
Water Absorption [mass-%]	PE-Norm P053	< 3.7
Tg [°C] (DSC)	PE-Norm P009	20 to 30
CTE [ppm/K]	PE-Norm P017	13

## Mechanical Data

Lap Shear Strength (Glas/PC) [MPa]	PE-Norm P013	approx. 4.4
Lap Shear Strength (Alu/PC) [MPa]	PE-Norm P013	approx. 3.3
Lap Shear Strength (Alu/Glas) [MPa]	PE-Norm P013	approx. 2.9
Tensile Strength (PC/PC) [MPa]	PE-Norm P013	approx. 3,0

## Instructions for Use

### Surface Preparation

The surfaces to be adhered should be free of dust, oil, fat or any other dirt in order to optimise reproducible bonds. Lightly soiled surfaces can be cleaned with cleaner IPA, whereas substrates with low surface energy (such as polyethylene, polypropylene or Teflon) need to be treated physically using plasma or corona to create a suitable working surface.

### Application

Our products are delivered ready for use. As soon as you receive them, you can dispense them, be it by hand from the container, or semi/fully automatically. When applied automatically, we recommend the use of air pressure with the appropriate cartridge/piston combination to dispense the adhesive at the required speed and accuracy.

Please read the corresponding **Safety Data Sheet** for this product.

19.11.15

No liability is accepted for any injury, loss or damage arising directly or indirectly from the use of the Company's products or from the use of information given in our publications, which is intended to serve as a guide only. Customers should satisfy themselves by appropriate trials that the products are suitable for their intended use.

