



## TECHNICAL DATASHEET

## Vitralit® UV 4050

Vitralit UV 4050 is a UV and light curing, solvent free 1C adhesive based on modified acrylate.

Vitralit UV 4050 is a medical adhesive designed for bonding of disposable medical products, for bonding of thermoplastic plastics/synthetics such as PC, PMMA, SAN, ABS and PVC, hard and soft, PS, PP and PE (pre-treated).

- Fluorescent pre and post curing
- Impact-strength
- Very fast curing
- Bio compatible according to ISO 10993-5
- ETO- and Gamma sterilization proof

### Shelf life:

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

### Technical Data

Color	klar gelblich
Resin	acrylat

### UNCURED PROPERTIES

Viscosity(25 °C / Brookfield LVT /Sp. / UPM)	PE-Norm P001	140 to 500
Flash point [°C]	PE-Norm P050	> 100
Density [g/cm <sup>3</sup> ]	PE-Norm P051	approx. 1.09
Refractive Index [nD20]	PE-Norm P018	1.48

### Curing

UV(UV-A 30mW/cm <sup>2</sup> in 50µ): [sec.]	PE-Norm P002	20
Full Strength [hours]	PE-Norm P032	12

### CURED PROPERTIES

Temperature Resistance [°C]	PE-Norm P030	-40 to 135
Hardness Shore D	PE-Norm P052	60 to 70
Water Absorption [Gew-%]	PE-Norm P053	< 2

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

Adhesives  
and more...

## Mechanical Data

Lap Shear Strength (PC/PC) [MPa]	[PE-Norm P013]	approx. 5
Lap Shear Strength (PC/PVC) [MPa]	[PE-Norm P013]	approx. 7
Elongation at Break [%]	[PE-Norm P060]	approx. 35

## 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 IP, 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. For glass bonding applications we have developed a special primer pen which can be easily applied to prepare the surface for best results.

### 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. If help is required, please consult our engineering department

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

Adhesives  
and more...