

Vitralit® 4451 is a UV - curable urethaneacrylat for conformal coating applications. It has an excellent corrosion protection and is due to its flexibility suitable for flexible circuits.

Vitralit® 4451 can be viscosity adjusted for a variety of application methods as selective coating, dispensing etc.

**shelf life:**

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

## Technical Data

Color	transparent
Resin	Urethanacrylat

## UNCURED PROPERTIES

Viscosity (Brookfield LVT/25°C) [mPa*s]	PE-Norm P001	600 to 800
Flash point [°C]	PE-Norm P050	> 93
Density [g/cm³]	PE-Norm P051	approx. 1.1
Refractive Index [nD20]	PE-Norm P018	1.478

## Curing

UV(UV-A 40mW/cm² Thickn.stärke 0,02mm): [sec.]	PE-Norm P002	5
Full Strength [hours]	PE-Norm P032	2
Depth of Cure [mm]	PE-Norm P033	2

## CURED PROPERTIES

Temperature Resistance [°C]	PE-Norm P030	-40 to 130
Hardness Shore D	PE-Norm P052	20 to 30
Volume resistivity [Ohm x cm]	ASTM-D-257-93	1E+15
Water Absorption [Gew-%]	PE-Norm P053	< 1.4

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...

Urethanacrylat, unfilled, UV curing:

- storage at max. 5°C
- before using acclimate to room temperature in original packing unit
- applicable with syringe, quench bottle, dispenser, automatic dispenser...
- surfaces to be bonded should be free of dust, oil, fat or any other dirt
- curing wave- length from 315nm to 400nm

Curing time depends on:

- emission spectrum and intensity of emitter but min. 30mW/cm<sup>2</sup>
- distance from emitter to substrate
- emitter intensity aging
- layer thickness
- material influence like reflection, adsorption, UV permeability ...

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and more...