

Vitralit® UD 5134 is for Bonding /sealing /potting of plastics, glass, metal or FR4, protection of sensitive components against mechanical and environmental stress. It is highly filled, high strength, low thermal expansion coefficient, low shrinkage and dry surface after curing. It is very quick curing and good temperature resistance.

**Shelf life:**

Store in original, unopened containers for 3 months at 5°C

## Technical Data

Color	grey
Resin	Acrylat-Hybrid
Filler	approx. 35% quartz

## UNCURED PROPERTIES

Viscosity(25 °C / Brookfield LVT /Sp. / UPM	PE-Norm P001	15000 to 25000
Flash point [°C]	PE-Norm P050	> 100
Density [g/cm³]	PE-Norm P003	approx. 1.27
Refractive Index [nD20]	PE-Norm P018	1.51

## Curing

UV(UV-A 40mW/cm²): [sec.]	PE-Norm P002	10
Visible Light ( ) :[sec.]	PE-Norm P037	10
Thermal Curing 120°C :[Min]	PE-Norm P035	15
Full Strength [hours]	PE-Norm P032	12
Depth of Cure [mm]	PE-Norm P033	5

## CURED PROPERTIES

Temperature Resistance [°C]	PE-Norm P030	-40 to 150
Hardness [Shore D]	PE-Norm P052	70 to 85
Shrinkage [%]	PE-Norm P031	2
Water Absorption [mass-%]	PE-Norm P053	< 0.15
Tg [°C] (DSC)	PE-Norm P009	45 to 55
CTE [ppm/K]	PE-Norm P017	52
Thermal conductivity [W/m·K]	ASTM 1530	0,27

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**Adhesives  
and more...**

**Mechanical Data**

Compression Shear Strength (Glass/Glass) [MPa]	[PE-Norm P061]	approx. 10
Compression Shear Strength (Glass/Alu) [MPa]	[PE-Norm P061]	approx. 12
Compression Shear Strength (Glass/Stainless Steel) [MPa]	[PE-Norm P061]	approx. 13
Lap Shear Strength (PC/PC) [MPa]	[PE-Norm P013]	approx. 7
Lap Shear Strength (PC/Stahl) [MPa]	[PE-Norm P013]	approx. 7
Lap Shear Strength (PC/FR4) [MPa]	[PE-Norm P013]	approx. 6
Elongation at Break [%]	[PE-Norm P060]	approx. 9
E-Modul [MPa]	[PE-Norm P056]	1345

**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...**