TECHNICAL DATASHEET

Vitralit® 6129

Vitralit® 6129 is a filled, thermally conductive adhesive for mounting heat sinks and heat sensitive electronic components to boards or any application where it is desirable to increase thermal conductivity between assembled parts. It is cured with UV-light, activator, or heat as low as 120°C. It also exhibits very much improved moisture resistance.

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

Technical Data

Color	white
Resin	acrylat
Filler	approx. 50% Aluminiumoxid

UNCURED PROPERTIES

Viscosity (Brookfield LVT/25°C) [mPa·s]	PE-Norm P001	30000 to 40000
Flash point [°C]	PE-Norm P050	> 92
Density [g/cm³]	PE-Norm P003	approx. 1.75

Curing

UV(UV-A 60mW/cm² Thickn.st. 1mm): [sec.]	PE-Norm P002	30
Thermical Curing 120°C :[Min]	PE-Norm P035	30
Chemical with Activator [Min]	PE-Norm P036	60
Full Strength [hours]	PE-Norm P032	after 12
Depth of Cure [mm]	PE-Norm P033	1

CURED PROPERTIES

Temperature Resistance [°C]	PE-Norm P030	-40 to 180
Hardness [Shore D]	PE-Norm P052	65 to 75
Shrinkage [Vol-%]	PE-Norm P031	2.2
Water Absorption [mass-%]	PE-Norm P053	< 0.8
Tg [°C] (DSC)	PE-Norm P009	40 to 60
CTE [ppm/K]	PE-Norm P017	36
Dielectric Constant [10kHz]	PE-Norm P054	3.2
Thermal conductivity [W/m·K]	ASTM 1530	0,95

Otherwise the guidelines for application, storage etc. in our general Data Sheet Vitralit® are valid.

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TECHNICAL DATASHEET

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Mechanical Data

Lap Shear Strength (Steel/Steel) [MPa]	[PE-Norm P013]	approx. 17.5
E-Modul [MPa]	[PE-Norm P056]	1055

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 easy 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...

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