Technical Datasheet

Vitralit® UH 1411



Product Description

Modified epoxy/acrylate | 1 part | solvent-free | UV / Visible light curing plus heat curing

- Exclusively for encapsulation
- General bonding of plastics

- Very good wetting properties
- Flexible adhesive
- **Electrically insulating**

Curing Properties

UV-A	LED 365nm	LED 405nm	Mandatory heat cure
-	✓	✓	✓

[✓] suitable – not suitable

LED-curing (Hoenle LED Spot 100, 365nm)		
Intensity [mW/cm²]** Layer thickness [mm]		Time [s]
500	0.025 – 0.1	15

LED-curing (Hoenle LED Spot 100	O-curing (Hoenle LED Spot 100, 405nm)		
Intensity [mW/cm²]**	Layer thickness [mm]	Time [s]	
700	0.025 – 0.1	10	

^{**}measured by Hoenle UV-Meter 3.0 / LED F2

For complete curing, it is necessary to apply heat after the UV curing process. The typical curing profile is as follows:

Secondary heat cure	[min]
Time at 120°C	1.5

To obtain full cure at least one substrate must be transparent to the recommended wavelength. The curing speed depends on the wavelength spectrum of the light source, the intensity of light, the distance to the light source, the component geometry and the amount of adhesive. The final strength is reached after 24 hours.

Technical Datasheet





Resin	Technical Data	
Appearance Transparent Uncured Material Viscosity (mPas) (Kinexus Rheometer, 25 °C, 10s°¹) 6,200 PE-Standard 004 1.1 Density [g/cm²] 1.1 PE-Standard 003 1.50 PE-Standard 023 2.0 Cured Material 405mm, 500mW/cm², 40s + 120 °C, 15min Hardness shore D 405mm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 006 31 Temperature resistance [°C] -40 − 180 Shrinkage [%] 0.2 405mm, 500mW/cm², 40s + 120 °C, 15min 0.2 PE-Standard 031 0.2 Water absorption [%] 2.3 405mm, 500mW/cm², 40s + 120 °C, 15min 2.3 PE-Standard 016 0.2 Glass transition temperature - DMA [°C] 405mm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 022 0.0 Coefficient of thermal expansion [ppm/K] below Tg 0.0 405mm, 500mW/cm², 40s + 120 °C, 15min 219 PE-Standard 017 0.0 Storage modulus – DMA [MPa] 0.0 405mm, 500mW/cm², 40s + 120 °C, 15min 0.0	Dania	Francisco dete
Uncured Material Viscosity (mPas) (Kinexus Rheometer, 25 °C, 10s ¹) PE-Standard 064 Density (g/cm²) PE-Standard 004 Refractive index (nD20) PE-Standard 003 Cured Material Hardness shore D 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 006 Shrinkage (%) 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 031 Water absorption (%) 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 016 Glass transition temperature - DMA (°C) 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 016 Glass transition temperature - DMA (°C) 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 017 Coefficient of thermal expansion (ppm/K) below Tg 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 017 Storage modulus – DMA (MPa) 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 017 Storage modulus – DMA [MPa] 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 022 Young 's modulus – DMA (MPa) 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 056 Temsile strength (MPa) 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 014 Elongation at break (%) 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 014 Elongation at break (%) 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 014 Elongation at break (%)		
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PE-Standard 0-64 Density [g/cm²] Density [Viscosity [mPas] (Kinexus Rheometer, 25 °C, 10s ⁻¹)	6 200
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### ### ### ### ### ### ### ### ### ##	Cured Material	
### PE-Standard 006 Temperature resistance [°C] -40 – 180 Shrinkage [%] ### 405nm, 500mW/cm², 40s + 120 °C, 15min	Hardness shore D	
Temperature resistance [°C] -40 – 180 Shrinkage [%] -405nm, 500mW/cm², 40s + 120 °C, 15min 0.2 PE-Standard 031 Water absorption [%] -2.3 PE-Standard 016 Glass transition temperature - DMA [°C] -405nm, 500mW/cm², 40s + 120 °C, 15min 70 PE-Standard 022 Coefficient of thermal expansion [ppm/K] below Tg 405nm, 500mW/cm², 40s + 120 °C, 15min 99E-Standard 017 Coefficient of thermal expansion [ppm/K] above Tg 405nm, 500mW/cm², 40s + 120 °C, 15min 99E-Standard 017 Storage modulus – DMA [MPa] -405nm, 500mW/cm², 40s + 120 °C, 15min 99E-Standard 017 Storage modulus – DMA [MPa] -405nm, 500mW/cm², 40s + 120 °C, 15min 99E-Standard 022 Young's modulus – Tensile test [MPa] -405nm, 500mW/cm², 40s + 120 °C, 15min 99E-Standard 056 Tensile strength [MPa] -405nm, 500mW/cm², 40s + 120 °C, 15min 99E-Standard 014 Elongation at break [%] -405nm, 500mW/cm², 40s + 120 °C, 15min 99E-Standard 014 Elongation at break [%] -405nm, 500mW/cm², 40s + 120 °C, 15min 99E-Standard 014 Elongation at break [%] -405nm, 500mW/cm², 40s + 120 °C, 15min 920	405nm, 500mW/cm², 40s + 120 °C, 15min	31
Shrinkage [%] 405nm, 500mW/cm², 40s + 120 °C, 15min Water absorption [%] 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 016 Glass transition temperature - DMA [°C] 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 022 Coefficient of thermal expansion [ppm/K] below Tg 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 017 Coefficient of thermal expansion [ppm/K] above Tg 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 017 Storage modulus – DMA [MPa] 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 022 Young's modulus – Tensile test [MPa] 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 056 Tensile strength [MPa] 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 056 Tensile strength [MPa] 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 014 Elongation at break [%] 405nm, 500mW/cm², 40s + 120 °C, 15min 7 PE-Standard 014 Elongation at break [%]	PE-Standard 006	
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### ### ### ### ### ### ### ### ### ##	Glass transition temperature - DMA [°C]	
## PE-Standard 022 Coefficient of thermal expansion [ppm/K] below Tg ## 405nm, 500mW/cm², 40s + 120 °C, 15min ## PE-Standard 017 Coefficient of thermal expansion [ppm/K] above Tg ## 405nm, 500mW/cm², 40s + 120 °C, 15min ## PE-Standard 017 Storage modulus – DMA [MPa] ## 405nm, 500mW/cm², 40s + 120 °C, 15min ## PE-Standard 022 Young's modulus – Tensile test [MPa] ## 405nm, 500mW/cm², 40s + 120 °C, 15min ## PE-Standard 056 Tensile strength [MPa] ## 405nm, 500mW/cm², 40s + 120 °C, 15min ## PE-Standard 014 Elongation at break [%] ## 405nm, 500mW/cm², 40s + 120 °C, 15min ## 7 PE-Standard 014 Elongation at break [%] ## 405nm, 500mW/cm², 40s + 120 °C, 15min ## 20	,	70
Coefficient of thermal expansion [ppm/K] below Tg 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 017 Coefficient of thermal expansion [ppm/K] above Tg 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 017 Storage modulus – DMA [MPa] 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 022 Young's modulus – Tensile test [MPa] 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 056 Tensile strength [MPa] 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 014 Elongation at break [%] 405nm, 500mW/cm², 40s + 120 °C, 15min 20		, •
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405nm, 500mW/cm², 40s + 120 °C, 15min 219 PE-Standard 017 260 Storage modulus – DMA [MPa] 260 405nm, 500mW/cm², 40s + 120 °C, 15min 260 PE-Standard 022 20 Young's modulus – Tensile test [MPa] 300 405nm, 500mW/cm², 40s + 120 °C, 15min 100 PE-Standard 056 300 Tensile strength [MPa] 300 405nm, 500mW/cm², 40s + 120 °C, 15min 7 PE-Standard 014 300 Elongation at break [%] 300 405nm, 500mW/cm², 40s + 120 °C, 15min 20		
PE-Standard 017 Storage modulus – DMA [MPa] 405nm, 500mW/cm², 40s + 120 °C, 15min 260 PE-Standard 022 Young's modulus – Tensile test [MPa] 405nm, 500mW/cm², 40s + 120 °C, 15min 100 PE-Standard 056 Tensile strength [MPa] 405nm, 500mW/cm², 40s + 120 °C, 15min 7 PE-Standard 014 Elongation at break [%] 405nm, 500mW/cm², 40s + 120 °C, 15min 20	Coefficient of thermal expansion [ppm/K] above Tg	
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405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 022 Young's modulus – Tensile test [MPa] 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 056 Tensile strength [MPa] 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 014 Elongation at break [%] 405nm, 500mW/cm², 40s + 120 °C, 15min 20	PE-Standard 017	
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Young's modulus – Tensile test [MPa] 405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 056 Tensile strength [MPa] 405nm, 500mW/cm², 40s + 120 °C, 15min 7 PE-Standard 014 Elongation at break [%] 405nm, 500mW/cm², 40s + 120 °C, 15min 20		200
405nm, 500mW/cm², 40s + 120 °C, 15min PE-Standard 056 Tensile strength [MPa] 405nm, 500mW/cm², 40s + 120 °C, 15min 7 PE-Standard 014 Elongation at break [%] 405nm, 500mW/cm², 40s + 120 °C, 15min 20		
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405nm, 500mW/cm², 40s + 120 °C, 15min 7 PE-Standard 014 Elongation at break [%] 405nm, 500mW/cm², 40s + 120 °C, 15min 20		
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405nm, 500mW/cm², 40s + 120 °C, 15min		
		20
E153000000 0 100	PE-Standard 014	20

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WVTR [g/(m²·d)]	
405nm, 500mW/cm², 40s + 120 °C, 15min	102
1mm, 60°C + 90% RH, 72h	
PE-Standard 072	

Transport/Storage/Shelf Life

Package type	Transport	Storage	Shelf life*
Syringe/Cartridge	0°C – 10°C	000 4000	At delivery
Other packages		0°C – 10°C	min. 1.5 months max. 3 months

^{*}Store in original, unopened containers!

Instructions for use

Surface preparation

The surfaces to be bonded should be free of dust, oil, grease, mold release, or other contaminants in order to obtain an optimal and reproducible bond. For cleaning we recommend the cleaner IP® from Panacol, or a solution of Isopropyl Alcohol at 90% or higher concentration. Substrates with low surface energy (e.g. polyethylene, polypropylene) must be pretreated in order to achieve sufficient adhesion.

Application

Our products are supplied ready to use. Depending on the packaging, our adhesives may be dispensed by hand directly from the package, or they can be applied using dispensing systems and automation that is compatible with light-curable adhesive chemistry. Vitralit adhesives can begin to cure slowly in daylight and with longer term exposure under indoor lighting. We therefore recommend that adhesive exposure to ambient light must be kept to a minimum. Fluid lines and dispense tips must be 100% light blocking. For assistance with dispensing options, please contact our Application Engineering department. Adhesive and substrate should not be cold for proper bonding. They must be allowed to warm to room temperature prior to processing. After dispensing the adhesive, bonding of the parts should be done promptly. It is recommended that curing stations be equipped with air exhaust systems to evacuate vapors and heat generated during the curing process. After curing, the adhesive must be allowed to cool to ambient temperature before testing the product's performance. For safety information refer to our Material Safety Data Sheet (MSDS).

Storage

This is light sensitive material. Containers must remain covered when not in use. Minimize exposure of uncured material to daylight, artificial light, and UV light during storage and handling. Store uncured product in its original, closed container in a dry location. Any material removed from the original container must not be returned to the container as it could be contaminated. Panacol cannot assume responsibility for products that were improperly stored, contaminated, or repackaged into other containers.

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Handling and Clean-up

For safe handling information, consult this product's Material Safety Data Sheet (MSDS) prior to use. Uncured material may be wiped away from surfaces with organic solvents. Do not use solvents to remove material from eyes or skin!

Disclaimer

The product is free of heavy metals, PFOS and Phthalates and is conform to the current EU-Directive RoHS.

THE VALUES NOTED IN THIS TECHNICAL DATA SHEET ARE TYPICAL PROPERTIES AND ARE NOT MEANT TO BE USED AS PRODUCT SPECIFICATIONS.

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