

# Technical Datasheet

## Vitralit<sup>®</sup> 7256



### Product Description

Modified acrylate | 1 K | solvent-free | UV curing

- ▶ Glass bonding
- ▶ Optics
- ▶ Transparent
- ▶ Resistant to yellowing

### Curing Properties

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

✓ suitable    - not suitable

If applicable, heat may only be used as a secondary cure for shadowed areas after the product has been cured with UV.

### UV-curing (Hoenle Discharge lamp, 320-390nm)

Intensity [mW/cm <sup>2</sup> ]*	Layer thickness [mm]	Time [sec]
60	1	15

\*measured by Hoenle UV-Meter 3.0 / UV-A F0

### LED-curing (Hoenle LED Spot 100, 365nm)

Intensity [mW/cm <sup>2</sup> **	Layer thickness [mm]	Time [sec]
300	1	10

\*\*measured by Hoenle UV-Meter 3.0 / LED F2

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 12 hours.

### Technical Data

Resin	Acrylate
Appearance	Transparent

# Technical Datasheet

## Vitralit® 7256



Uncured Material	
Viscosity [mPas] (Brookfield LVT, 25 °C, Sp. 3/60 rpm) <i>PE-Norm 001</i>	600 – 1,000
Density [g/cm <sup>3</sup> ] <i>PE-Norm 004</i>	1.0 – 1.1
Flash point [°C] <i>PE-Norm 050</i>	>100
Refractive index [nD20] <i>PE-Norm 023</i>	1.47 – 1.48
Cured Material	
Hardness shore D <i>PE-Norm 006</i>	70 – 80
Temperature resistance [°C]	-40 – 120
Shrinkage [%] <i>PE-Norm 031</i>	<6
Water absorption [%] <i>PE-Norm 016</i>	<2
Glass transition temperature - DSC [°C] <i>PE-Norm 009</i>	55 – 60
Coefficient of thermal expansion [ppm/K] below Tg <i>PE-Norm 017</i>	<80
Coefficient of thermal expansion [ppm/K] above Tg <i>PE-Norm 017</i>	220 – 350
Thermal conductivity [W/m*K] <i>PE-Norm 062</i>	0.1 – 0.3
Thermal conductivity [W/m*K] <i>PE-Norm 054</i>	0.25 – 0.75
Dielectric constant [10kHz] <i>IEC 62631-2-1</i>	3 – 7
Young's modulus – Tensile test [MPa] <i>60mW/cm<sup>2</sup>, 30sec, Fe spectrum</i> <i>PE-Norm 056</i>	1,800 – 2,800
Tensile strength [MPa] <i>60mW/cm<sup>2</sup>, 30sec, Fe spectrum</i> <i>PE-Norm 014</i>	28 – 40
Elongation at break [%] <i>60mW/cm<sup>2</sup>, 30sec, Fe spectrum</i> <i>PE-Norm 014</i>	2 – 6
Lap shear strength (glass/glass) [MPa] <i>60mW/cm<sup>2</sup>, 30sec, Fe spectrum</i> <i>PE-Norm 013</i>	4 – 8

### Transport/Storage/Shelf Life

Package type	Transport	Storage	Shelf life*
Syringe/Cartridge	At room temperature max. 25°C	At room temperature max. 25°C	At delivery min. 6 months max. 12 months
Other packages			

**\*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.

#### 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!

# Technical Datasheet

## Vitralit<sup>®</sup> 7256



### 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.**

The information contained in this data sheet is believed to be accurate and is provided for information only. Panacol makes no representation or warranties of any kind concerning this information. It is the user's responsibility to determine the suitability of this product for any intended use. Panacol does not assume responsibility for test or performance results obtained by the user. The user assumes all risk and liability connected with the use of this product.

The user should adopt such precautions and use guidelines as may be advisable for the protection of property and persons against any hazards that may be involved in this product's handling or use. Panacol specifically disclaims any liability for consequential or incidental damages of any kind arising from the handling or use of this product. The information contained in this Technical Data Sheet offers no assurance that the product use, application, or process will not infringe on existing patents or licenses of others. Nothing in this Technical Data Sheet transfers or grants license for the use of any patents, trade secrets, intellectual property, or confidential information that is the property of Panacol.

Except as otherwise noted, all trademarks in this document (identified as <sup>®</sup>) are the property of Panacol.

#### Contact

Panacol-Elosol GmbH  
Stierstädter Straße 4  
61449 Steinbach  
Germany  
Phone: +49 6171 6202-0  
Mail: [info@panacol.de](mailto:info@panacol.de)  
[www.panacol.com](http://www.panacol.com)

Panacol-USA, Inc.  
142 Industrial Lane  
Torrington CT 06790  
USA  
Phone: +1 860-738-7449  
Mail: [info@panacol-usa.com](mailto:info@panacol-usa.com)  
[www.panacol-usa.com](http://www.panacol-usa.com)

Panacol-Korea Co., Ltd.  
#707, Kranz Techno,  
388 Dunchon-daero  
Junwon-gu, Seongnam  
Gyeonggi-do, 13403 KOREA  
Phone: +82 31 749 1701  
Mail: [info@panacol-korea.com](mailto:info@panacol-korea.com)  
[www.panacol-korea.com](http://www.panacol-korea.com)

Eleco Panacol – EFD  
125, av Louis Roche  
Z.A. des Basses Noëls  
92238 Gennevilliers Cdx FRANCE  
Tél.: +33 (0)1 47 92 41 80  
Mail: [eleco@eleco-panacol.fr](mailto:eleco@eleco-panacol.fr)  
[www.eleco-panacol.fr](http://www.eleco-panacol.fr)