TECHNICAL DATASHEET ELECOLIT® 3064



PRODUCT DESCRIPTION

Modified acrylate | 1 part | solvent-free | UV / Visible light curing | anisotropically conductive

- Bonding of flexible conductors
- LCD display contacting

- High flexibility
- Good adhesion to PET, Kapton and Mylar

CURING PROPERIES

During the curing process, the pressure $(1.2 - 1.7 \text{ N} / \text{mm}^2)$ must be applied with a glass stamp. For sufficient contact, an adhesive gap thickness of approx. 8 μ m should be aimed for.

UV-A	LED 365nm	LED 405nm	
✓	✓	✓	

[✓] geeignet - nicht geeignet

Light-curing (Hoenle Discharge Lamp)		
Intensity [mW/cm²]*	Layer thickness [mm]	Time [s]
70	0.5	30

^{*}measured by Hoenle UV-Meter 3.0 / UV-A FO

LED-curing (Hoenle LED Spot 100, 365nm)			
Intensity [mW/cm²]*	Layer thickness [mm]	Time [s]	
300	0.01	3	

LED-curing (Hoenle LED Spot 100, 405nm)				
Intensity [mW/cm²]*	/cm²]* Layer thickness [mm] Time [s]			
500	0.01	3		

^{**}gemessen mit dem Hönle 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.

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Resin	Acrylate
Appearance	Transparent, brown
Filler	Gold coated particles
Filler - weight [%]	1
Particle size Ø [µm]	10
Uncured Material	
Viscosity [mPas] (Brookfield LVT, 25 °C, Sp. 7/5 rpm)	
Test instruction P001	150,000 – 190,000
Viscosity [mPas] (Kinexus Rheometer, 25 °C, 10s ⁻¹)	10.000 00.000
Test instruction P064	12,000 – 30,000
Thixotropic index [1/10]	
Test instruction P064	5 – 7
Density [g/cm³]	1.0 – 1.2
Test instruction P004	1.0 – 1.2
Cured Material	
Hardness shore A	00 70
Test instruction P006	60 – 70
Typical operating temperature [°C]	-50 - 150
Linear shrinkage [%]	
Test instruction P031	<4
Water absorption [wt%]	<2
Test instruction P016	(2
Glass transition temperature - DSC [°C]	-5040
Test instruction P009	30 10
Coefficient of thermal expansion [ppm/K] below Tg Test instruction P017	50 – 150
Coefficient of thermal expansion [ppm/K] above Tg	
Test instruction P017	280 – 450
Young's modulus – Tensile test [MPa]	
LED 405nm, 500mW/cm², 1min	<10
Test instruction P056	
Tensile strength [MPa]	
LED 405nm, 500mW/cm², 1min	3 – 7
Test instruction P014	
Elongation at break [%]	
LED 405nm, 500mW/cm², 1min	250 – 400
Test instruction P014	
Compression shear strength (glass/glass) [MPa]	
LED 405nm, 500mW/cm², 1min	5 - 9
Test instruction P066	
Lap shear strength (glass/AI) [MPa]	
LED 405nm, 500mW/cm², 1min	2 – 5
Test instruction P013	

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Lap shear strength (glass/steel) [MPa] LED 405nm, 500mW/cm², 1min Test instruction P013	2 – 5
Lap shear strength (PC/PC) [MPa] LED 405nm, 500mW/cm², 1min Test instruction P013	2 – 4
Lap shear strength (PC/PMMA) [MPa] LED 405nm, 500mW/cm², 1min Test instruction P013	2 – 5
Lap shear strength (PC/FR4) [MPa] LED 405nm, 500mW/cm², 1min Test instruction P013	2 – 4

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TRANSPORT/STORAGE/SHELF LIFE

Package type	Transport	Storage	Shelf life*
Syringe/Cartridge	At room temperature	0°C – 10°C	At delivery
Other packages	max. 25°C	00-100	min. 3 months max. 6 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 Hoenle, 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. Many commercially available valve and controller options are available to ensure accurate and consistent adhesive dispensing. For assistance with dispensing and curing questions, please contact our Applications 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 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

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. Hoenle 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!

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DISCLAIMER

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

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