

PRODUCT DESCRIPTION

Modified acrylate | 2 part | solvent-free | room temperature

- Bonding materials such as metal, glass, ceramics, wood and many plastics (except PE and PP)
- High-performance structural adhesive for metals
- High temperature resistance up to 180 ° C
- Good impact resistance and high tensile shear and peel strength

CURING PROPERIES

This product is a two-component adhesive. The adhesive can be applied after mixing the two components in their appropriate ratios. All two-component adhesives have a determined pot life. Consideration should be given to the amount of adhesive that is mixed, as it must be applied within the noted pot life for optimal dispensing and assembly.

Mixing ratio	Pot life
1:1	2 min

This adhesive can be cured at room temperature. Typical curing parameters are listed in the table below.

Curing	Time		
Handling strength	5 – 10 min		
Final strength	4 – 6 h		

The curing times are only provided as a guideline. They are derived from curing a 2g adhesive sample without affixed substrates in a laboratory environment. Actual cure times can vary based on part size, configuration, adhesive volume, temperature control.



TECHNICAL DATA	
Resin	Methacrylate
Appearance part A	Light brown
Appearance part B	Green
Appearance mix	Transparent
Uncured Material	
Viscosity [mPas] (Brookfield LVT, 25 °C) part A	8,000 – 10,000
Test instruction P001	
Viscosity [mPas] (Brookfield LVT, 25 °C) part B	8,000 – 10,000
Test instruction P001	
Viscosity [mPas] (Brookfield LVT, 25 °C, Sp.4/30 rpm) mix Test instruction P001	8,000 – 10,000
Density [g/cm³]	
Test instruction P004	1.03
Cured Material	
Hardness shore D	25 ==
Test instruction P006	65 – 75
Typical operating temperature [°C]	-40 – 180
Linear shrinkage [%]	<2
Test instruction P031	ζ2
Water absorption [wt%]	<3
Test instruction P016	
Glass transition temperature - DSC [°C]	140
Test instruction P009	146
Coefficient of thermal expansion [ppm/K] below Tg	69
Test instruction P017	09
Coefficient of thermal expansion [ppm/K] above Tg	174
Test instruction P017	17-7
Dielectric strength [kV/mm]	21 27
DIN EN 60243	31 – 37
Young's modulus – Tensile test [MPa]	1400
Test instruction P056	1,492
Tensile strength [MPa]	27
Test instruction P014	21
Elongation at break [%]	E
Test instruction P014	5
Lap shear strength (steel/steel) [MPa]	28
Lap shear strength (stainless steel/stainless steel) [MPa]	27
Lap shear strength (AI/AI) [MPa]	23



TRANSPORT/STORAGE/SHELF LIFE

Package type	Transport	Storage	Shelf life*
Syringe/Cartridge	At room temperature	At room temperature	Delivery min. 4.5 months
Other packages	max. 25 °C	max. 25 °C	max. 9 months

^{*}Store in original, unopened containers!

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 packaging they can be applied by hand directly from the container or by using compatible dispensing systems and automation.

Static mix tips provide the ability to efficiently mix the adhesive while dispensing. Many commercially available valve and controller options are available for two-part adhesives to ensure accurate and consistent adhesive dispensing. For assistance with dispensing and curing questions, please contact our Applications Engineering department. To obtain best results, the adhesive and substrates to be bonded may not be cold and should be allowed to warm to room temperature prior to processing.

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!



DISCLAIMER

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

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