TECHNICAL DATA SHEET Mv-T-Glue® 701

February 2019



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Product Description

My-T-Glue® 701 is very low viscosity one component cyanoacrylate designed for bonding of plastics and elastomeric materials where very fast fixturing is required.

Properties

Technology Cyanoacrylate

Chemical Type Ethvl

Cyanoacrylate

Component One part -

> requires no mixing

Appearance colorless to straw

colored liquid

 1.06 ± 0.03 Specific Gravity @ 25

Viscosity Brookfield @ 2-6 cP

25±2 °C; Spindle #1

Speed 100 r.p.m.

Application **Bonding**

Curing Performance

Under normal conditions, the atmospheric moisture initiates the curing process. Although full functional strength is developed in a relatively short time, curing continues for at least 24 hours before full chemical/solvent resistance is developed.

Cure Speed vs. Substrate

The rate of cure will depend on the substrate used. The fixture time achieved on different materials at 25 °C / 65 % relative humidity is given below. This is defined as the time to develop shear strength of 0.1 N/mm².

Fixture Time. Seconds

Steel (degreased) 3 to 6 Aluminum (etched) 2 to 10 Neoprene <5 Rubber, Nitrile < 5 $2 \ to 10$ ABS **PVC** 2 to 10 Polycarbonate 15 to 50 : Phenolic 5to 15

Cure Speed vs. Bond Gap

The rate of cure will depend on the bond-line gap. Thin bond lines result in high cure speeds. increasing the bond gap will decrease the rate of cure.

Cure Speed vs. Activator

Where cure speed is unacceptably long due to large gaps, applying activator to the surface will improve cure speed. However, this can reduce ultimate strength of the bond and therefore testing is recommended to confirm effect.

Adhesive Properties of Cured Material

After 24 hours @ 25±2 °C

Lap Shear Strength, N/mm², ASTM D 1002

Steel: 15 - 20 Aluminum: 8 - 13

ABS : 4 - 6

PVC: 4 - 6

Polycarbonate: 3.5 - 4.5 Phenolic: 7 - 12

Neoprene : 5 - 12 Nitrile : 5 - 10

After 24 hours @ 25±2 °C

Tensile Strength, N/mm², ASTM D 897

Steel: 13 - 22

Hot Strength

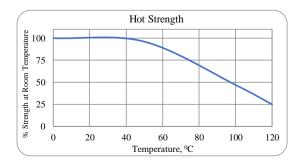
Test : Lap Shear Strength, ASTM D

1002

Steel Substrate

: 24 hrs @ 25±2 °C Cure

Tested at temperature indicated.



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Heat Aging

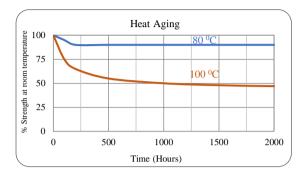
Test : Lap Shear Strength, ASTM D

1002

Substrate: Steel

Cure : 24 hrs @ 25±2 °C

Aged at temperature indicated and tested @ 25 ± 2 °C.



Chemical/Solvent Resistance

Test : Lap Shear Strength, ASTM D

1002

Substrate: Steel

Cure : 24 hrs @ 25±2 °C

Aged under condition indicated and tested @ 25±2 °C.

Environment	Temp	% of Initial Strength	
	(^{0}C)	500 hrs	1000 hrs
Engine oil	40	100	100
Water Glycol	40	100	100
Ethanol	40	100	100
Isopropanol	40	100	100
1,1,1-	40	100	100
Trichloroethane			

Directions for use

- For best performance bond surfaces should be clean and free from grease.
- This product performs best in thin bond gap (0.05 mm).
- 3. Excess adhesive can be dissolved with Metlok cleanup solvents, nitro methane or acetone.

Handling

- ❖ For safe handling My-T-Glue[®] 701 must be handled in a manner as indicated in Material Safety Data Sheet (MSDS) and in compliance with relevant local regulations.
- My-T-Glue[®] 701 is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

❖ My-T-Glue® 701 is non-volatile and nonflammable at room temperature.

Storage

- ❖ Store My-T-Glue® 701 in a cool, dry location in unopened containers at a temperature between 20°C to 25°C.
- Store away from sunlight and heat sources.
- My-T-Glue® 701 will exhibit a shelf life of six months from the date of manufacture when store in above mentioned conditions.
- ❖ To prevent contamination of unused product, do not return any material to its original container. For further specific shelf life information, contact our technical service center R&D Center.

Pack Size

My-T-Glue® 701 is ideally available in 20 gm and 50 gm.

Note

technical information statements. recommendations set forth herein are based on tests which Metlok Private Limited, believes to be reliable. However, Metlok Private Limited does not guarantee their accuracy or completeness. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In no case will Metlok Private Limited be liable for direct, consequential economic or other damages.

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