

Cyberbond

Cyberpoxy
5899

TECHNICAL DATA SHEET



Cyberpoxy 5899 is a two part filled epoxy designed for bonding metals and plastics. It cures at room temperature to a tough, semi-rigid material. Cyberpoxy 5899 will readily bond most plastics, metals, ceramics, paper, wood and some rubbers, and possesses very good impact and vibration resistance. Cyberpoxy 5899 is certified to the ISO 10993-5 standard for cytotoxicity, making it suitable for use in medical device applications.

Physical Properties - Liquid

| | |
|------------------|-------------------------|
| Appearance | Gray (mixed) |
| Viscosity | 700,000 +/- 100,000 cPs |
| Shelf Life | 12 months unopened |
| Odor | Mild |
| Specific Gravity | 1.19 |
| RoHS Compliant? | Yes |

Curing Properties

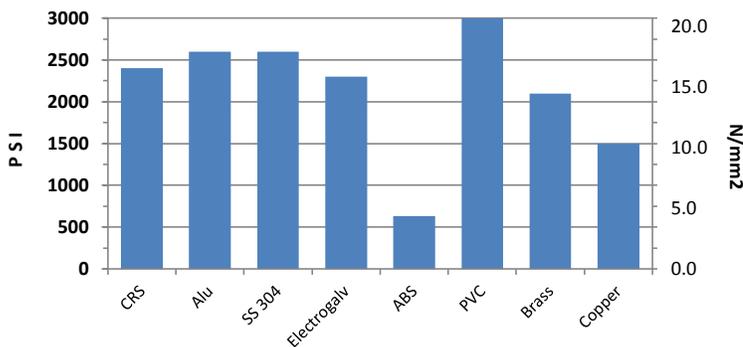
| | | |
|----------------|-------------|----------|
| Open Time | 120 minutes | |
| Fixture Time | 3 - 5 hours | |
| Full Cure Time | @ Room Temp | 24 hours |
| | @ 66°C | 2 hours |

Physical Properties - Polymer (Solid)

| | |
|-----------------------|----------------|
| Shore Hardness | 80D |
| Operating Temperature | -40°C to 150°C |
| Elongation | 1-2% |
| Tg | 85°C |

Performance Results

| Substrate | N/mm ² | PSI |
|-----------------------------------|-------------------|------------------|
| CRS, abraded | 16.5 | 2400 |
| 2024-T3 Aluminum, Acid Etched | 17.9 | 2600 |
| SS 304, abraded | 17.9 | 2600 |
| Electrogalvanized Steel, IPA wipe | 15.9 | 2300 |
| ABS, IPA wipe | 4.3 | 630 |
| PVC, IPA wipe | material failure | material failure |
| Brass, abraded | 14.5 | 2100 |
| Copper, abraded | 10.3 | 1500 |



Specifications and Approvals

10993-5

General Instructions

Surfaces to be bonded must be clean, dry and free of other contaminants. Measure out equal amounts of parts A and B and stir until homogenous or use a static mixing nozzle. Apply the uniform mixture to both surfaces. An optimum bond line is 5 mils. Allow to cure while being held in place with light clamping.

Storage

Product should be stored in a cool dry place out of direct sunlight. Shelf life is 12 months when properly stored in unopened, original containers.

Health Precautions

Avoid contact with skin and eyes. Wash with soap and water. Clean up spills with lacquer thinner. Consult msds before use.

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS)

Note

The data contained herein are furnished for information only and are believed to be reliable. Cyberbond L.L.C. cannot assume responsibility for the results obtained by others over whose method Cyberbond L.L.C. does not control. It is the user's responsibility to determine suitability for the product or 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 light of the foregoing, Cyberbond L.L.C. specifically disclaims all warranties of merchantability or fitness for a particular purpose arising from sale or use of Cyberbond L.L.C. products. Cyberbond L.L.C. specifically disclaims any liability for consequential or incidental damages of any kind, including loss of profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Cyberbond L.L.C. patents which may cover such processes or compositions. We recommend that each prospective user test the proposed application to determine its suitability for the purpose intended prior to incorporating any product or application in its manufacturing process using the data as a guide.

Cyberbond, LLC
401 N Raddant Road
Batavia, IL 60510
630.761.8900 tel

www.cyberbond1.com

Cyberbond Europe GmbH
Werner-von-Siemens Straße 2
D - 31515 Wunstorf, Germany
49 / 50 31 / 95 66 - 0 tel

www.cyberbond.de