



20-3302

WATER CLEAR OPTICALLY TRANSPARENT EPOXY

DESCRIPTION:

20-3302 is a two component, *ultra clear* epoxy system. It provides excellent optical transmission along with outstanding adhesion and electrical properties. This high purity grade polymer system is formulated with proprietary ultraviolet protectors to minimize yellowing of the cured epoxy. This adhesive/potting compound, when UV aged in a QUV Weatherometer, outperforms other commercially available epoxy systems.

20-3302 is a low viscosity system designed for L.E.D. encapsulating, fiber optics, and any potting or adhesive application requiring optimum clarity. This epoxy system also provides a bubble free and glass smooth finish.

20-3302 LV is a lower viscosity version of 20-3302. Both resins utilize the same curing agent.

FEATURES:

Low viscosity
Water clear

Bubble free castings
Outstanding electrical properties

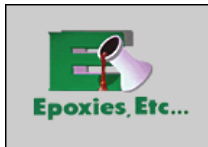
TYPICAL SPECIFICATIONS:

| | <u>20-3302</u> | <u>20-3302 LV</u> |
|---|----------------|-------------------|
| Mix ratio | | |
| by weight (Resin:Hardener) | 100:50 | 100:50 |
| by volume (Resin:Hardener) | 100:60 | 100:60 |
| Mixed viscosity @ 25°C, CPS | 500 | 250 |
| Color | Water clear | Water clear |
| Pot Life, 25°C, 100 grams | 30-45 minutes | 30-45 minutes |
| Specific gravity, 25°C | | |
| Resin | 1.1 | 1.1 |
| Catalyst | .96 | .96 |
| Index of refraction | 1.564 | 1.564 |
| Transmission at 3000 angstroms | 90% | 90% |
| Transmission at 3100 angstroms to 2.5 microns | 98-99% | 98-99% |
| Hardness, shore D | 85 | 85 |
| Operating temperature range, °C | -45 to +135 | -45 to +135 |

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Epoxy, Urethane & Silicone Formulations

TYPICAL SPECIFICATIONS (continued):

| | | |
|---|-------------------------|-------------------------|
| Coefficient of Linear Thermal Expansion (30°C - 90°C) in/in/°C | 62 x 10 ⁻⁶ | 62 x 10 ⁻⁶ |
| Lap Shear | 2,250 | 2,250 |
| Dielectric strength, volts/mil | 500 | 500 |
| Dielectric constant, 25°C | 3.1 | 3.1 |
| Volume Resistivity (ohm-cm) | >3.5 x 10 ¹⁴ | >3.5 x 10 ¹⁴ |

INSTRUCTIONS FOR USE:

1. By weight thoroughly mix 50 parts catalyst to 100 parts resin. By volume thoroughly mix 60 parts catalyst to 100 parts 20-3302 resin.
2. Let cure at room temperature for 24 hours or 1-2 hours at 125°F.

IMPORTANT:

The information in this brochure is based on data obtained by our research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.

07/09

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