

# STAR Technology

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## ER3320

### Epoxy Casting Compound

#### DESCRIPTION

ER3320 is a room temperature cure epoxy potting and encapsulation compound. The Shore D hardness of ER3320 lends its use to include prototype mold making, potting and encapsulation for shock sensitive components, PC board protection and moisture proofing electronic assemblies. ER3320 was formulated as a flame-retardant system that flexible, tough and water resistant. This product may contain fillers that may settle over time. Product may need to be stirred before using. Customer must determine suitability of product before using.

Data contained herein are believed to be reliable. Fit-for-use testing should be conducted by each user.

#### TYPICAL PROPERTIES

##### Part A:

Color:	Black
Viscosity (cps):	13,000
Specific Gravity (g/cc):	1.4

##### Part B:

Color:	Amber
Viscosity (CPS):	80
Specific Gravity (g/cc)	0.99

Mix Ratio:	100:10 by weight
Gel Time (minutes):	50
Shore D Hardness:	75
Water Absorption [24 hrs] (%):	.10
Thermal Conductivity (W/mK):	.418
Dielectric Strength (volts/mil):	408
Surface Resistivity ( $\Omega$ ):	$21.25 \times 10^{14}$
Volume Resistivity ( $\Omega$ cm):	$2.96 \times 10^{15}$
Dielectric Constant [120 Hz]:	3.29
Dissipation Factor [120 Hz]:	0.01302

UL 1446 Temperature Rating	Class H (180)
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To the best of our knowledge, the information contained herein is accurate. However, STAR TECHNOLOGY, Inc., does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. The information contained herein is considered typical properties and is not intended to be used as specifications for our products. This information is offered solely to assist purchaser in selecting the appropriate products for purchaser's own testing. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein and in the material safety data sheet, we cannot guarantee that these are the only hazards that exist. Repeated and prolonged exposure to epoxy resins can cause sensitization or other allergic responses.



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#### APPLICATION PROCEDURES

Carefully weigh out appropriate amounts of resin and hardener into a clean mixing container and thoroughly mix until all streaks and striations are gone. Scrape the sides and bottom frequently to ensure complete mixing.

*CAUTION:* Unmixed compound from the sides or bottom of the container can cause soft spots or uncured areas in the completed piece. To prevent this, transfer the entire mixed contents to a second clean container and remix for a short time before using.

#### PRECAUTIONS

For industrial use only. Keep away from children.

Refer to the Material Safety Data Sheets (MSDS forms) pertaining to this product before using.

Avoid contact with skin or eyes. In the event of an eye splash or contact, immediately flush with cold water for 15 minutes and contact a physician. If skin contact occurs, wash with mild soap and water. The wearing of safety glasses with side shields and impervious gloves is recommended.

#### RESIN AND HARDENER WARNING STATEMENT

May cause allergic skin reaction. Avoid all contact with skin, eyes, and clothing. Wash thoroughly after handling.

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