

# STAR Technology

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## ER3100

### Two Part Epoxy Potting Compound

#### DESCRIPTION

ER3100 is a room temperature cure epoxy potting and encapsulation compound formulated with a short gel time to facilitate automatic casting operations. The Shore D hardness of ER3100 lends its use to include prototype mold making, potting and encapsulation for shock sensitive components, PC board protection and moisture proofing electronic assemblies. ER3100 has a convenient 1:1 mix ratio by volume for ease in automatic or manual dispensing.

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

#### TYPICAL PROPERTIES

	<u>TEST METHOD</u>	<u>VALUE</u>
Gel Time [100 gram mass at 25°C] (minutes):	ASTM D2471	25
Shore D Hardness:	ASTM D2240	75
Tensile Strength (psi):	ASTM D638	5758
Volume Resistivity (ohms/cm <sup>3</sup> ):		1.9 x 10 <sup>16</sup>
Dielectric Strength (volts/mil):		582
CTE (unit/unit/°C):		153 x 10 <sup>-6</sup>
Shrinkage (%):		0.22
Tg (°C):	ASTM D3418	102
Maximum Exotherm in 100 Gram Mass (°C):		95
Part A:		
Specific Gravity (g/cc):	ASTM D1475	1.15
Viscosity (cps):	ASTM D2393	4000
Color:		Black
Part B:		
Specific Gravity (g/cc):	ASTM D1475	0.95
Viscosity (cps):	ASTM D2393	1300
Color:		Amber
Mixed		
Specific Gravity (g/cc):	ASTM D1475	1.10
Viscosity (cps):	ASTM D2393	3000
Color:		Black
Mix Ratio:		
By Volume:		100: 100

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.

For 1# and 2# kits, add all of Part B to Part A and mix thoroughly.

*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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