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STAR*TECH P-232

Epoxy Potting and Casting Resin

DESCRIPTION

Two part general purpose thermally conductive epoxy casting and potting compound for use in all types of electrical and electronic assemblies including prototype mold making, potting and encapsulation for shock sensitive components, PC board protection and moisture proofing electronic assemblies A 100% solids product containing no volatile solvents, which might prove irritating to employees. P-232 can be colored to suit your desired application. 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.

Star*Tech P-232-2 is a suitable offset for Dolph CB-1069/RE-2000 and Guardian 63/100.

Star*Tech P-232-3 is a suitable offset for Guardian 63

Star*Tech P-232-5 is a suitable offset for Dolph BC-1069/RE-2001, a non-hazardous version of P-232-3

BENEFITS

Available in Pre-measured kits
Superior Electrical Properties
Excellent Thermal Conductivity

Low Shrinkage
Good Impact Resistance
Excellent Chemical Resistance

TYPICAL PROPERTIES (cured 7 Days at 75°F.)

	<u>TEST METHOD</u>	<u>VALUE</u>		
		<u>P-232-2</u>	<u>P-232-3</u>	<u>P-232-5</u>
Mix Ratio, Resin to Hardener				
Parts by Weight:		100:6	100:21	100:21
Parts by Volume:		100:10	100:35	100:35
Viscosity (centipoise)	ASTM D2393			
Part A:		7,000	7,000	7,000
Part B:		20	40	350
Density (g./cc)	ASTM D1475			
Part A:		1.60	1.60	1.60
Part B:		0.98	1.04	0.95
Mixed:		1.54	1.48	1.46
Pot Life: 100 grams at 75°F (minutes)	ASTM D2471	30	120	120
Color				
Part A:			Gray Liquid	
Part B:			Light Straw	
Shore Hardness (D)	ASTM D2240		80	
Lap Shear (psi)				
At 23°C:	ASTM D1002		2200psi	
Compressive Strength:	ASTM D695		21,000psi	
Shrinkage:			>0.5%	
Tg °C:		92.5	65	100
Tensile Strength	ASTM D638		12,000psi	
Elongation			2.0%	
Coefficient of Linear Thermal Expansion	ASTM D696		25 x 10 ⁻⁶ in/in/°C	
Dielectric Strength:	ASTM D149		>450 volts/mil at 0.125"	
Volume Resistivity (ohms/cm ³):			6.3 x 10 ¹⁴	
Thermal Conductivity (W/m°C):			0.76	

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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.



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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