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AD-68-1

Two Part Epoxy System

DESCRIPTION

AD-68-1 is a two part black, filled, room temperature epoxy potting and encapsulation compound. **AD-68-1** has superior thermal conductivity, and great shock resistance. **AD-68-1** has excellent exothermic properties and has low shrinkage. The viscosity accompanied by the long gel time, makes this a viable system for high speed production or manual applications.

Product has been formulated to keep fillers from settling, however, it is good practice to stir before using. Customer must determine suitability of product before using.

TYPICAL PROPERTIES

	TEST METHOD	AD-68-1
Gel Time [100 Gram Mass at 75 ° F] (minutes):	ASTM D2471	520
Shore D Hardness:	ASTM D2240	85
Thermal Conductivity (W/mK):		0.676
Dielectric Breakdown Strength (V/mil):	ASTM D149	500
Glass Transition Temperature (°C):		62
Part A:		
Specific Gravity (g/cc):	ASTM D1475	1.81
Viscosity (cps):	ASTM D2393	100,000
Color:		Black
Part B:		
Specific Gravity (g/cc):	ASTM D1475	0.95
Viscosity (cps):	ASTM D2393	35
Color:		Clear
Mixed Product:		
Specific Gravity (g/cc):	ASTM D1475	1.66
Color:		Black
Mix Ratio:		
By Weight:		100:11.4
By Volume:		4.6:1
Dielectric Constant @ 1 KHz:	ASTM D150	3.85
Dielectric Constant @ 100 KHz:	ASTM D150	3.4
Dissipation Factor @ 1 KHz:	ASTM D150	0.03
Dissipation Factor @ 100 KHz:	ASTM D150	0.02
Volume Resistivity (Ωcm):		$2.6X10^{15}$
UL1446 Temperature Rating		Class H (180)

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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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