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## **P-55-1**

### Two Part Room Temperature Epoxy Encapsulating System

#### **DESCRIPTION**

P-55-1 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 P-55-1 lends its use to include prototype mold making, potting and encapsulation for shock sensitive components, PC board protection and moisture proofing electronic assemblies. P-55-1 has a convenient 1:1 mix ratio by volume for ease in automatic or manual dispensing. P-55-1 is a thixotropic non-sag version of P-55-1.

#### **TYPICAL PROPERTIES**

	<u>TEST METHOD</u>	<u>VALUE</u>
Gel Time [100 Gram Mass at 25°C] (minutes):	ASTM D2471	11
Shore D Hardness:	ASTM D2240	80
Tensile Strength (psi):	ASTM D638	1920
Volume Resistivity (ohms/cm <sup>3</sup> ):		8.2x10 <sup>15</sup>
Tg (°C):	ASTM D3418	110
CTE (unit/unit/°C):		79x10 <sup>-6</sup>
Shrinkage on Cure (%):		0.05
Maximum Exotherm in 100 Gram Mass (°C):		95
Part A:		
Specific Gravity:	ASTM D1475	1.60
Viscosity (cps):	ASTM D2393	
P-55-1:	Thixotropic Paste	
Color:	Black	
Part B:		
Specific Gravity (g/cc):	ASTM D1475	1.50
Viscosity (cps):	ASTM D2393	
P-55-1:	Thixotropic Paste	
Color:	Gray	
Mixed Product:		
Specific Gravity (g/cc):	ASTM D1475	1.53
Viscosity (cps):		
P-55-1:	Thixotropic Paste	
Color:	Black	

Mix Ratio:

By Weight:	100 : 94
By Volume:	100 : 100
Shelf Life (months):	
Part A:	12
Part B:	6

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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.