



17 Hampshire Drive, Unit 8
Hudson, NH 03051

www.conductivecompounds.com

Innovative Chemistry For High-Tech Applications

Phone: (603) 595-6221

Fax: (603) 595-6228

EP-452

THERMALLY CONDUCTIVE EPOXY ADHESIVE

EP-452 is a two component, 100% solids thermally conductive epoxy adhesive which offers high thermal conductivity and electrical insulation. Other advantages of EP-452 include:

- o No silicone contamination
- o Long pot life after mixing
- o Easy 10:7 mix ratio, by weight
- o High temperature resistance
- o Good solvent resistance

TYPICAL PROPERTIES

Appearance

Mix ratio (by weight)

Component A

Thick White Paste

10 Parts

Component B

Thick Off White Paste

7 Parts

Viscosity After Mixing (#7 Spindle, 10rpm) 20,000 cps

Cure Schedule

150°C For 10 Minutes -or-

Room Temperature For 48 Hours

Gel Time (25°C, 25 gm scale)

> 18 Hours

Pot Life (25°C)

> 6 Hours

PHYSICAL PROPERTIES AFTER CURE

Thermal Conductivity

8 BTU-in/hr-ft²-°F (1.2 w/m-°k)

Volume Resistivity

1 x 10¹³ Ω-cm

Breakdown Voltage (14 mil film)

>200 VAC/mil

For optimal thermal transfer properties, potting compounds should be deaerated under vacuum after mixing to remove entrapped air.

NOTE: Although the above typical properties are accurate to the best of our knowledge, Conductive Compounds, Inc. makes no guarantees for customer specifications established in applications where this product is used. Customer assumes responsibility for determining fitness of use in their particular application.