

# SCHLEGEL electronic materials

a member of *CMEI Group* 

# PHASE CHANGE MATERIAL

**OC-800** 

### **Features and Benefit**

- 2.5W/m-K
- Naturally tacky
- Electrically Isolating
- RoHS compliant
- Halogen-free

OC-800 is a thermally conductive phase change material having a softening temperature of 50°C. The liquid phase of the material can fill interface irregularities with much higher efficiency than traditional gap filler. On the other hand, it is a solid at room temperature and can be handled easily during installation.

OC-800 is RoHS compliant and halogen-free. It is naturally tacky and additional adhesive is generally not required.

Color

White – standard color

requirements

Please contact us for other color

#### Typical Application

- Automotive control units
- Power supply
- Audio and video component
- General high pressure interface
- Micro processor

### Standard Configurations

- Thickness: 0.005~0.02"
- Sheet size: 12" \* 16"
- Consult our factory for alternative thicknesses
- OpTIM™ OC-800 may be die cut into individual sizes

## **Typical Properties/Data**

| Properties                                  | OC-800 Series                                 | Test Method           |
|---|---|-----------------------|
| Construction & Composition                  | Phase Change Materials                        |                       |
| Color                                       | White   | Visual                |
| Thickness Range (inch)/(mm)                 | 0.005~0.02" (±0.002)<br>0.127~0.508mm (±0.05) | -                     |
| Specific Gravity (g.cm <sup>-3</sup> )      | 1.62  |                       |
| Shelf life (months)                         | 12  |                       |
| Phase change temperature (°C)               | 50  | DSC Method            |
| Operation Temperature (°C)                  | -40~130°C                                     |                       |
| Thermal Conductivity (W.m.K <sup>-1</sup> ) | 2.5   | ASTM D5470 (Modified) |
| Thermal Impedance @ 80psi (°C.in²/W)        | 0.075   | ASTM D5470 (Modified) |
| "Burn-in" temperature (°C)                  | 75°C for 5 minutes                            |                       |

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