

# SILTRUST™ LTR495 Thermally Conductive Gap Filler

## Product Description

SILTRUST LTR495 is a two-component, thermally conductive silicone paste that cures at room temperature, and faster with the addition of heat, to form a soft, heat dissipating rubber. After application, the non-slump, paste consistency provides physical stability to prevent run-off after dispensing. Each batch of SILTRUST LTR495 meets ASTM E595 levels of low outgassing.

## Key Features and Typical Benefits

- Approximately 4 W/mK thermal conductivity
- Low outgassing, meets or exceeds ASTM E595 levels
- Non-corrosive to metals, including copper
- Two-component heat cure using convenient 1:1 mix ratio
- Wide operating range, -40°C to 150°C

## Typical Physical Properties

	SILTRUST™ LTR495	
Uncured Properties	LTR495 (A)	LTR495 (B)
Appearance/Color	Blue	Pale Blue
Viscosity, Pa•s	233	211
Flowability	Non-sag	Non-sag
Mix Ratio by Weight	1:1	
Typical Cured Properties	Cured at 100° C for 30 minutes	
Hardness, Type E	52	
Thermal Conductivity <sup>†</sup> , W/mK	4.2	
Thermal Resistance, mm <sup>2</sup> •K/W	30 @ 80µm bond line thickness	
Dielectric Strength, kV/mm	14	
Outgassing-Total Mass Loss <sup>‡</sup> , %	0.1	
Outgassing-Collected Volatile Condensable Materials <sup>‡</sup> , %	0.03	

Typical properties are average data and are not to be used as or to develop product specifications.

<sup>†</sup>: Hot wire test method

<sup>‡</sup>: when tested using ASTM E595 conditions

## Potential Applications

LTR495 can be considered for use as a soft, compliant, thermally conductive gap filler between a heat source and lid or cooling device where outgassing must be minimal. Potential application spaces include aerospace and sensors.

## Compatibility

LTR495 silicone rubber compound will cure in contact with most clean, dry surfaces. However, certain materials, such as butyl and chlorinated rubber, sulfur-containing materials, amines, and certain metal soaps cured RTV silicone rubber compounds, can cause cure inhibition. Cure inhibition is characterized by a gummy appearance of the RTV silicone rubber compound at the interface between it and the substrate.

It is recommended that a sample patch test be performed with LTR495 silicone rubber compound to

determine if a barrier coating or other inhibition preventing measures are necessary before applying material to a desired surface.

### Curing

LTR495 can cure at room temperature in approximately 24 hours or rapidly at elevated temperatures. 30 minutes at 100°C or 60 minutes at 70°C are common cure cycles for LTR495.

### Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement, or recommendation to practice any invention covered by any patent without authority from the owner of the patent.

### Product Safety, Handling, and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment, if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

### Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular application(s).

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