



805-19C

One-Component Silver-Filled Low-Outgassing Adhesive

Description:

The 805-19C is a one-component, high performance, silver filled room temperature curable epoxy adhesive.

Advantages:

805-19C is filled with conductive metals for both electrical and thermal conductivity. 805-19C meets the requirements of NASA outgassing testing (ASTM E-595) and offers high strength and excellent electrical conductivity.

Shelf Life: (Sealed containers)

6 weeks at -40°C or 3 months at -80°C. Hand agitation of the resin component is recommended after long standing to insure best results.

Physical Properties:

Color: Silver
Specific Gravity: 2.77

Cure Schedules:

To achieve ultimate properties and meet NASA outgassing, cure the product for a minimum of 3 hours at 80°C. 805-19C will also cure at room temperature.

Cure Temperature:	25°C	80°C
Cure Time (hours):	24	3

Pot Life (20 grams) @ 25°C = 3 hours

Cured Properties:

Shore D Hardness, measured @ 25°C: >80
 Electrical Volume Resistivity,
 @ 7 days @ 25°C (room temp) (Ω-cm): <0.005
 @ 3 hours @ 80°C (Ω-cm): <0.002
 Thermal conductivity, (W/m-K): 3.0
 Tensile Lap Shear (ASTM D-1002)
 Cured 3 hrs. @ 80°C (psi): 1,000
 Operating Temperature Range: -60°C to +125°C

NASA Outgassing (ASTM E-595) cured 3 hours @ 80°C

TML 0.47%
 CVCM 0.01%
 WVR (Water Vapor Regain) 0.12%

Storage and Handling:

Normal storage and handling is at room temperature. Use standard mixing and housekeeping procedures to minimize the risk of spills and contact with the surrounding material

All values reported above are typical values, and are reported as a means of reference. Individual testing should be done to determine actual results, tested at specific conditions.

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