

TECHNICAL DATA SHEET

My-T-Sil® 3920 (A&B)

Thermally Conductive-Gap Filler

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METLOK PRIVATE LIMITED
(An ISO 9001 Certified Company)
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Product Description

My-T-Sil® 3920 (A&B) is a two component, thermally conductive silicone elastomer system specially designed to be used as a thermal gap filling interface in electrical and electronic components. It works with heat sink or metal cases to dissipate heat from critical electronic component.

Key Features:

- ❖ Good Thermal Conductivity
- ❖ Room Temperature and Fast Curing
- ❖ Repairable
- ❖ High dielectric strength

Applications:

Used as a thermal interface in electronic components in Automobiles, Power electronics, Consumer electronics, lighting industry and battery assembly for electric vehicles and hybrid electric vehicles, etc.

Properties

Colour (mix adhesive)	:	White
Resin	:	Yellow
Hardener	:	White
Component	:	Two
Specific Gravity @ 25 °C		
Part A	:	2.8
Part B	:	2.8
Viscosity, Brookfield DV1 @25±2°C, Spindle no 4, Speed 20 r.p.m.		
Part A	:	200000 to 300000 cP
Part B	:	200000 to 300000 cP
Mix ratio	:	1:1
Hardness, Durometer-Shore A, ASTM D 2240	:	60 ± 3
Thermal conductivity, ISO 22007	:	2 W/m°K
Dielectric Strength	:	10 KV/mm
Temperature Resistance	:	-50 to 180 °C

Cure Characteristics @ Room Temperature (25±2 °C) / 50±5 % RH

Pot life	:	45 min.
Total Cure	:	24 Hrs

Directions for Use and Cure Information

1. Mix My-T-Sil® 3920 A and B parts in a simple 1:1 ratio until a uniform mix is achieved. Care should be taken during mixing to avoid excessive aeration. However in most cases degassing is not required.
2. The typical pot life of 45 minutes at 25 °C allows adequate time for mixing, degassing and pouring. For faster cure the product can be heat accelerated.
3. The two components may be mixed either by hand or using a low-speed electric mixer to minimize the introduction of air into the mixture. It is essential that the mixing head produces a uniform blend of the two components.
4. My-T-Sil® 3920 require no post curing and can be placed in service immediately following the completion of the cure cycle.

Storage and Handling

- ❖ My-T-Sil® 3920 (A & B) should be stored in its original unopened containers in cool, dry place at 25±2 °C temperatures.
- ❖ Containers should always be kept sealed when not in use.
- ❖ My-T-Sil® 3920 (A & B) will exhibit a shelf life of 6 months from the date of manufacture when stored as mentioned above.

Pack Size

My-T-Sil® 3920 (A&B) is supplied in kits consisting of 2 packages containing the weight of Parts 'A' and 'B' as per the ratio.

Note

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