

TECHNICAL DATA SHEET

My-T-Sil® 3005 (A & B)

2K Silicone

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METLOK PRIVATE LIMITED
(An ISO 9001 Certified Company)
W-27, M.I.D.C. Industrial Area
Kalmeshwar – 441 501, Nagpur

Product Description

My-T-Sil® 3005 (A & B) is a 2-component, thermally conductive silicone elastomer system specially designed for protection of electrical and electronic components. The cured product is a flexible, medium to high modulus elastomer. My-T-Sil® 3005 (A & B) component parts are readily mixed in a simple 1:1 ratio.

Key Features:

- ❖ Moderate thermal Conductivity.
- ❖ Low mix viscosity.
- ❖ Room Temperature Curing.
- ❖ 1:1 mixing ratio
- ❖ Flowable grade for easy processing.

Application:

- ❖ Encapsulation in electrical and electronic components
- ❖ Potting

Properties

Colour (mix adhesive)	:	Light Grey
Resin	:	Grey
Hardener	:	Off white
Component	:	Two
Specific Gravity @ 25 °C		
Part A	:	2.96
Part B	:	1.47
Viscosity, Brookfield DV II +Pro @25±2°C, Spindle no 6, Speed 20 r.p.m.		
Part A	:	25000 to 35000 cP
Part B	:	25000 to 35000 cP
Mix ratio	:	1:1
Thermal conductivity	:	0.8 W/m-°K
Temperature Resistance,	:	-50 to 250 °C

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

Pot life	:	6 Hrs.
Total Cure	:	24 Hrs.

Heat Cure	:	30 min@120 °C
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Physical properties: 3 mm strip cure for 24 hrs @ 25±2 °C / 50±5% RH

Hardness, Durometer-	:	60± 3
Shore A, ASTM D 2240		
Elongation ASTM D412	:	150 -180 %

Directions for Use and Cure Information

1. Mix My-T-Sil® 3005 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 de aining is not required.
2. The typical pot life of 6 hrs. 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® 3005 require no post curing and can be placed in service immediately following the completion of the cure cycle.

Storage and Handling

- ❖ My-T-Sil® 3005 (A & B) should be stored in its original unopened containers (unmixed) in cool and dry place at 25±2 °C temperature. Containers should always be kept sealed when not in use.
- ❖ My-T-Sil® 3005 (A & B) will exhibit a shelf life of 12 months from the date of manufacture when stored as mentioned above.

Pack Size

My-T-Sil® 3005 (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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(Bonding and Sealing Solutions)

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