8349TFM

Thermal Adhesive

8349TFM is a 2-part, flame retardant, thermally conductive epoxy adhesive. It is a dark grey, smooth, thixotropic paste that cures to form a hard, durable polymer that is thermally conductive, yet electrically insulating.

This thermal adhesive is most often used to bond heatsinks to CPUs, LEDs and other electronics components.

For a shorter working time, use 8329TFF. For a longer working time, use 8329TFS.

Features and Benefits

- High thermal conductivity
- Flame retardant—meet UL 94V-0
- 1:1 mix ratio
- High dimensional stability
- Provides strong electrical insulation
- Excellent compressive and tensile strength
- Bonds well to a wide variety of substances
- Strong resistance to humidity, salt water, mild bases, and aliphatic hydrocarbons
- SVHC-free

Available Packaging

Cat. No.	Packaging	Net Vol.	Net Wt.
8349TFM-45ML	2 Jar Kit	45 mL	73.2 g
8349TFM-200ML	2 Can Kit	200 mL	325 g

Contact Information

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Cured Properties

Resistivity	6.5 x 10^{12}	Ω·cm
Hardness	92	D
Tensile Strength	25	N/mm^2
Compressive Strength	115	N/mm^2
Lap Shear (stainless steel)	6.7	N/mm^2
(aluminum)	4.4	N/mm^2
Glass Transition Temperature (T_g)	80	˚C
CTE Prior T_g	20	ppm/˚C
CTE After T_g	120	ppm/˚C
Thermal Conductivity @ 25 ˚C	0.9	W/(m·K)
Service Temperature Range	-65–120	˚C
Max. Intermittent Temperature	200	˚C

Usage Parameters

Working Time	20	min
Mix Ratio by Volume	1:1	
Mix Ratio by Weight	1:1	

Uncured Properties

Mixed Density	1.6	g/mL

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Application Instructions

Read the product SDS before using this product (downloadable at www.mgchemicals.com).

Recommended Preparation

Clean the substrate with Isopropyl Alcohol, MG #824, so the surface is free of oils, dust, and other residues.

Can or Jar

1. Stir each part individually to re-incorporate material that may have separated during storage.
2. Measure 1 part by weight of A.
3. Measure 1 part by weight of B.
4. Thoroughly mix parts A and B together.
5. Apply adhesive to the application area.

Cure Instructions

Allow to cure at room temperature for 16 hours, or cure the adhesive in an oven at one of these time/temperature options:

Temperature	65 °C	80 °C
Time	20 minutes	10 minutes

Storage and Handling

Store between 16 and 27 ˚C in a dry area, away from sunlight (see SDS). To maximize shelf life, recap product firmly when not in use.

Disclaimer

This information is believed to be accurate. It is intended for professional end-users who have the skills required to evaluate and use the data properly. M.G. Chemicals Ltd. does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.