



GT50R

High conductivity Thermal Interface Material based on the rest of the graphene film from the volume production of GT-TIM[®]

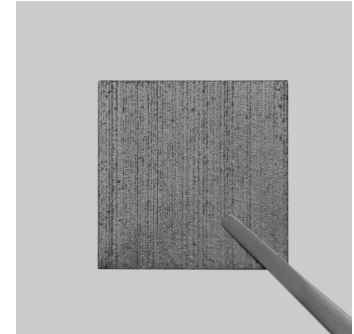
Trademark: GT-TIM[®]

Features:

- High Thermal Conductivity and mechanical strength
- Based on rest of the graphene material from existing volume production
- Sustainable concept

Applications:

Cooling of batteries and other power modules, other complex products that generate lots of heat



Description:

GT50R is a graphene-enhanced thermal interface material that is based on graphene rest from current volume production. It has very high thermal conductivity (over 50W/mK) and extremely strong mechanical strength (over 4 MPa). GT50R opens new opportunities for addressing large heat dissipation issues in battery cooling and encapsulation with extremely high mechanical stability.

Physical Properties	Value	Units	Test Method
Bulk Thermal Conductivity	>50	W/mK	ASTM5470
Thickness	>0.3	mm	Micrometer
Thickness Tolerance	<10	%	-
Pad Size	Up to 80*60	mm ²	-
Tensile strength	>4	MPa	ASTM D412
Surface Roughness (Ra)	<3	µm	Wyko NT1100 optical profilometer
Surface Roughness (Rz)	<30	µm	Wyko NT1100 optical profilometer
Application Temperature	-40 to 150	°C	-
Flammability	V-0		UL94
Color	Grey	-	Visual

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