

DESCRIPTION

Thermal gels are highly efficient at transferring heat between components, providing excellent thermal conductivity and reducing thermal resistance. They can conform to irregular shapes and surfaces, filling gaps and minimizing air pockets, which improves heat transfer and reduces the risk of overheating. Thermal gels are also easy to apply and remove, making them ideal for testing and prototyping. They are non-toxic and non-corrosive, making them safe for use in sensitive applications such as electronics and medical devices.

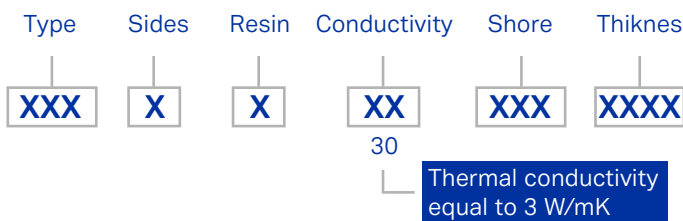
Additionally, thermal gels can be formulated to provide a range of thermal conductivities, making them suitable for a wide range of applications that require effective heat management.



RoHS 3 / REACH
Last updated compliance directive



PART NUMBER:



TYPICAL APPLICATIONS:

- Hard disk, mobile phone
- Optical precision equipment
- Mobile and communication equipment
- Automobile engine control equipment
- High-end industrial control and medical electronics

Properties	UNITS	TGL2S502200050		TEST METHOD
Before mixing				
Color	-	Gray	White	Visual
Density	g/cm ³	3.2	3.2	Helium true density method
ixing ratio	-	1:1		N/A
Shelf life @25°C	month	6	6	N/A
Extruded speed (50ccEFDcartridges1"orifice 90 psi)	g/min	±3		ASTM D2240
Mixed performance				
Colour	-	Gray		Visual
Volume resistance	Ωcm	>10 ¹⁴		ASTM D257
Thermal Conductivity	W/mK	5.0		ASTM D5470
Dielectric breakdown stength @AC	V	>6000		ASTM D149
Dielectric constant	-	5.5		ASTM D150
Minimum interface thickness	mm	0.15		N/A
Operating temperature	°C	-50/200		N/A
Siloxane volatilization (D3/D12)	PPM	<300		GB/T 27843-2011
Thermal expansion coefficient	ppm/K	175		ASTME831
Flame retardancy		V-0		UL 94
Flame retardanci @25°C	min	20		N/A

TGL 5.0 - THERMAL GEL

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Properties	UNITS	TGL2S502200050	TEST METHOD
Full cure time			
25°C	H	4	N/A
100°C	min	15	N/A
Hardness after curing (Shore00)		55±10	ASTM D2240
RoHS (10)		PASS	IEC 62321
Halogen (4)		PASS	ENI 14582
REACH (191)		PASS	ENI 14372

STORAGE CONDITIONS

Store in a ventilated, cool and dry place, do not touch open flames. This product is nontoxic and is stored and transported as non-dangerous goods.