



## Two component thermal conductive gel series

### 【Thermal Gap filler】

## DATA SHEET



- Product picture -

#### FEATURES:

- 3.0W/m.K thermal conductivity
- Replacing traditional assembled sheet with phase-change material
- Dispensing can be done through various manual or automatic processes
- It is Soft, can eliminates assembly stress and damping
- After curing, the required thickness can be maintained

#### APPLICATIONS:

- Semiconductors and radiator
- LED lamps luminaries, automotive and consumer electronics
- Being dispensed or directly coated by all kinds of thickness and shape
- High performance CPU and display card processor

#### APPLICATION METHODS:

- Two component thermal conductive gel can be used in various ways, including automatic dispensing and manual coating.

The series of products are accord with standards of RoHS、HSF and HALOGEN.

**STORAGE CONDITIONS:**Storage in the darkness

**STORAGE TEMPERATURE:** ≤ 30 °C

**STORAGE HUMIDITY:** ≤ 70%

**SHELF LIFE:** Six months storage conditions;  
Unqualified for storage conditions: 3 months.

#### BEFORE VULCANIZATION

Items		Parameter HTG-300D	Unit	Test Method
Color	A component	white	-	Visual
	B component	gray	-	Visual
	After mixing	Gray white	-	Visual
State		High viscosity fluid	-	-
Density		≤2.5	g/cc	ASTM D 792
Mixing ratio		1:1	-	mass ratio
Extrusion		95(@0.6Mpa)	g/min	GB/T 29755-2013
Curing condition	Surface curing	1(@25°C)	H	-
	Complete curing	24(@25°C)	H	-
	Accelerated curing	15(@100°C)	min	-

#### AFTER VULCANIZATION

Items	Parameter	Unit	Test Method
Thermal conductivity	3.0(±0.25)	W/m.K	ASTM D 5470
Thermal resistance	≤1.0(@20psi&1mm)	°Cin <sup>2</sup> /W	ASTM D 5470
Hardness	30(±5)	Shore C	ASTM D 2240
Breakdown voltage	≥10	KV/mm	ASTM D 149
Volume resistivity	≥10 <sup>12</sup>	Ω.cm	ASTM D 254
Compression ratio	≥20(@50Psi)	@	ASTM D 695
Tensile strength	≥0.2	Mpa	ASTM D 412
Elongation	≥200	%	ASTM D 412
Bonding strength	≥0.05	Mpa	ASTM D 624
spiral	≤2.5	%	ASTM G 120
Tear strength	≥1.2	KN/m	ASTM D 624
Permittivity	≥2	@1MHz	ASTM D 150
Dielectric loss	≤0.1	@1MHz	ASTM D 150
UL Certification	V-0	-	UL94
Operating Temperature	-40~150	°C	--

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#### PACKING:

- According to different needs, it can be classified into to 400cc/20L and other capacity by the way of 1:1 perfusion packaging.