



HFC SHIELDING

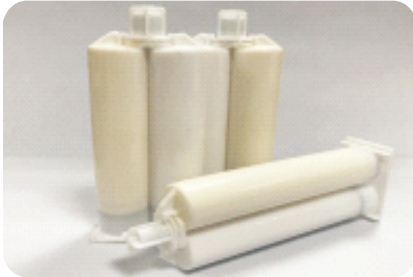
PROFESSIONAL • CONCENTRATIVE • DEDICATED

Innovative Materials Manufacturer

Two component thermal conductive gel series

【Thermal Gap filler】

DATA SHEET



- Product picture -

FEATURES:

- 1.35W/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: $\leq 30^{\circ}\text{C}$

STORAGE HUMIDITY: $\leq 70\%$

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

PACKING:

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

BEFORE VULCANIZATION

Items		Parameter HTG-150D	Unit	Test Method
Color	A component	gray	-	Visual
	B component	yellow	-	Visual
	After mixing	Light yellow	-	Visual
State		Low viscosity fluid	-	-
Density		2.0(± 0.2)	g/cc	ASTM D 792
Mixing ratio		1:1	-	mass ratio
Extrusion rate		16(@0.6Mpa)	g/min	GB/T 29755-2013
Curing condition	Surface curing	0.5(@25°C)	H	-
	Complete curing	24(@25°C)	H	-
	Accelerated curing	1(@100°C)	min	-

AFTER VULCANIZATION

Items	Parameter	Unit	Test Method
Thermal conductivity	1.35(± 0.1)	W/m.K	ASTM D 5470
Thermal resistance	≤ 1.5 (@20psi&1mm)	$^{\circ}\text{Cin}^2/\text{W}$	ASTM D 5470
Hardness	40(± 5)	Shore C	ASTM D 2240
Breakdown voltage	≥ 10	KV/mm	ASTM D 149
Volume resistivity	$\geq 10^{10}$	$\Omega\cdot\text{cm}$	ASTM D 254
Compression ratio	≥ 25 (@50Psi)	@	ASTM D 695
Tensile strength	≥ 0.35	Mpa	ASTM D 412
Elongation	≥ 200	%	ASTM D 412
Tear strength	≥ 2.5	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	-40~180	$^{\circ}\text{C}$	--

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