



TECHNOLOGY MAKES LIFE BETTER

安徽省蚌埠市高新区兴中路 985 号  
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安徽艾约塔硅油有限公司

**IOTA CORPORATION LTD.**

Sunmoon industry park, 985 Xingzhong Road,  
Bengbu, China 233000

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## IOTA 4808 Silicone Electronic Potting Sealant

### Features:

1. UL, CE certified
2. Good flowability as supplied, good self-debubbling performance
3. Excellent resistance to temperature extremes
4. Excellent electrical insulation performance and excellent arc, corona and shock resistance
5. Excellent resistance to water, ozone and weathering
6. Excellent adhesion to PPO, PET, PVDF and other materials
7. Non-corrosive to copper, aluminium, tin, silver and many other materials
8. V-1 class fire resistance performance
9. Excellent thermal conductivity

### COLOURS

IOTA 4808 part A is available in white or black fluid, and part B in clear or shallow yellow liquid. It is white or black fluid after mixing.

### PACKAGING

IOTA 4808 is available in kits: Part A in plastic pails (12kg), part B in plastic pails (2kg); or Part A in plastic pails (3kg), part B in plastic cartridges (300ml, 0.5kg).

### Typical properties:

These values are not intended for use in preparing specifications.

Test Method	Property	Unit	Result
<b>As supplied</b>			
/	Appearance	Part A: white/black fluid Part B: clear liquid	
GB 16776	Working time at 25°C	min.	12
GB/T 13477.5 (ASTM D2377)	Tack free time	min.	18
/	Curing time	h	24
<b>Cured after 7 days at 23±2°C, RH 50±5%</b>			
GB/T 531.2 (ISO 7619)	Hardness	Shore A	45
GB/T 528 (ISO 37)	Tensile strength	MPa	1.5

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GB/T 528 (ISO 37)	Elongation at break	%	70
GB/T 1692	Volume resistivity	$\Omega \cdot \text{cm}$	$1 \times 10^{15}$
GB/T 1695 (ASTM D 149)	Breakdown strength	kV/mm	18
GB/T 1693 (ASTM D 150)	Dielectric constant (1MHz)		3.2
/	Linear shrinkage	%	0.5
GB/T 10707	Fire resistance rate		V-1
GB/T 11205	Thermal conductivity	W/m·K	0.4

\*GB: Chinese National Standard

ASTM: American Society for Testing and Materials

ISO: International Standardization Organization

The "GB" testing method is equivalent or partly equivalent to that in the "()"

### STORAGE AND SHELF LIFE

IOTA 4808 should be stored in original unopened containers over temperature from 4°C to 27°C and be kept away from rain or direct sunshine.

IOTA 4808 has a shelf life of 12 months from the date of manufacture.

IOTA 4808 is non-hazardous for transportation.

### HOW TO USE

Mix part A base to Part B curing agent at a ratio of 6:1 by weight or 4:1 by volume, and then pot the mixture into the parts of substrates where needed, place at room temperature for initial curing for about 2~4 hours before conducting the next procedure. If precipitation occurs in Part A, just stir it well before use, and this does not affect the performance of the sealant.

When using automatic dispensing machine, set at a ratio of 6:1 by weight or 4:1 by volume of part A to Part B for a test first and then put into use.

### NOTES

Screw tight the cover of Part B immediately after use to avoid the exposure to atmospheric moisture

Part A base and part B curing agent should be fully mixed to ensure the homogeneity of the sealant, or it affects the performance of the sealant.

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Part A and Part B should be kept separately and get mixed on site, and be used within a short time after mixing.

For common low-voltage electrical potting, de-bubbling is not needed, but vacuum de-bubbling for 3~5 minutes is required for high voltage electrical potting.

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