



安徽艾约塔硅油有限公司

**Iota Silicone Oil(Anhui) Co., Ltd**

安徽省蚌埠市高新区兴中路 985 号日月科技园

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

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### Silicone Gel IOTA 6250

IOTA 6250 is a medium viscosity, two-component, 1:1 mixed liquid flow silicone gel, which can be cured at room temperature or by heating. Applied to encapsulate electronic precision electrical circuits and hybrid circuits, solar cells, sensors, high-power rectifiers, IGBT modules, and electronic components of optoelectronic equipment in automobiles, providing waterproof, moisture-proof, dustproof, moisture-proof, shockproof, and insulation protection for electronic components and assemblies

#### Product features

- Two component, 1:1 mixture
- Addition curing without by-products
- Medium viscosity, fast curing
- Transparent and soft, with self-healing properties
- High transmittance, yellow becomes smaller

#### Product parameters

Inspection items	Component	Test Method	Results
Before curing			
Viscosity (mpa.s)	A	GB/T 2794	560
	B	GB/T 2794	1002
Density (g/cm <sup>3</sup> )	A	GB/T 13354	0.97
	B	GB/T 13354	0.97
Mixing ratio	A:B	/	1:1
Mixed density(g/cm <sup>3</sup> )	A+B	GB/T 13354	0.97
Operable time/25°C(h)	A+B	GB/T 7123	1
Gel time/25°C(h)	A+B	/	6
Curing conditions(°C× min)	A+B	/	120×30
After curing			
Density/25°C(g/cm <sup>3</sup> )		GB/T 13354	0.98

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Penetration(mm/10)		GBT 4509-2010	350
Dielectric constant		GB/T1693	2.7
Volume resistivity( $\Omega$ ·cm)		GB/T 1692	1015
Dielectric strength (KV/mm)		GB/T 1695	15
Refractive index/23°C		ABBE	1.405
Transmittance(%)		UV-VIS	99
Flame retardancy		UL	94HB

The data in the table is for reference only, please refer to the measured data

### Operation and Safety

- Before use, mix components A and B in a ratio of 1:1. Stirring time 5min. It is recommended to use after degassing for 5-10 minutes under -0.09MPa~-0.08MPa vacuum.
- The mixed rubber should be sealed and stored and used up within the safe operation period, otherwise it will slowly solidify and cause waste.
- This product is non-hazardous, but do not put it in the mouth or eyes. If it splashes in, rinse with plenty of water.
- During the vulcanization process, this product should avoid contact with organic compounds containing N, P, S, ionic compounds of heavy metals such as Sn, Pb, Hg, Sb, Bi, As, and organic compounds containing unsaturated groups such as acetylene, otherwise it will cause poor curing of the glue. Therefore, the compatibility test of silicone rubber and substrate should be carried out before use.
- Temperature and curing time: 25°C, no flow after 120min; fully cured at 120°C for 30min.
- The curing speed of the adhesive is related to the temperature. The curing will be slower at low temperature.
- Both the A and B components of the adhesive must be sealed and stored. Be careful of leakage during transportation!

### Package

- A / B Component 20KG
- A / B Component 200KG

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### **Storage and Shelf life**

- Store in a dry place for a storage period of 12 months. If it expires, it needs to be retested and can be reused after passing the inspection.
- This type of product belongs to non hazardous goods and can be transported as general chemicals.

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