



TECHNOLOGY MAKES LIFE BETTER

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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 D4926 Two-component silicone sealant

Product features:

IOTA D4926 is a kind of double component silicone rubber, which is cured at room temperature and can be heated quickly. Its characteristics are as follows:

Before curing, good fluidity, the operation time is moderate, good self-decoration, convenient operation and use;

Excellent resistance to high temperature and low temperature performance, after curing can be used under $-50^{\circ}\text{C}\sim+200^{\circ}\text{C}$;

Excellent electrical insulation, arc resistance and shock resistance, long term protection of electronic components and welding points;

Good water resistance, ozone resistance, earthquake resistance, aging resistance, can effectively prevent the infiltration of water vapor, to maintain long-term sealing performance;

Excellent thermal conductivity, can guarantee the effective heat dissipation of electronic components and batteries.

Application:

Widely used in the new energy automotive power lithium battery PACK, electronic components, waterproof, heat sealing cushion;

Used in various electrical equipment potting, bonding, positioning, sealing and waterproof.

Typical product performance (not used as a product standard)

| No | Item | Technical index | Inspection method |
|---------------|------------------------------|--|-------------------|
| Before curing | | | |
| 1 | Appearance | A component B component White fluid Dark gray fluid | / |
| 2 | Viscosity (mPa.s,25°C) | A component 1000-1200 B component 1000-1200 | GB/T 2794 |
| 3 | Applicable period (min,25°C) | ≥90 | / |
| 4 | Curing time | ≤50 | / |

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| | | | |
|---|------------------------------------|--------------------------------|------------|
| | (min,>45℃) | | |
| 5 | Curing time (h,25℃) | ≤4 | / |
| After curing (After 24 hours at room temperature) | | | |
| 6 | Appearance | Dark gray black elastic rubber | / |
| 7 | Density(g/cm ³) | 1.35±0.05 | GB/T 13477 |
| 8 | Shore A hardness | 42-50 | GB/T 531.1 |
| 9 | Tensile strength (Mpa) | ≥0.35 | GB/T 528 |
| 10 | Volume resistivity (Ω.cm) | 1x10 ¹⁴ | GB/T 1692 |
| 11 | Breakdown voltage strength (Kv/mm) | 18 | GB/T 1695 |
| 12 | Dielectric constant /1MHz | 2.8 | GB/T 1693 |
| 13 | Thermal conductivity (W/ (m.K) | ≥1.0 | / |
| 14 | Flame retardant grade | V-0 | GB/T 2408 |

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