SI8250

Silicone Potting Sealant

Premium Quality & Ultimate Service

Optical grade two component liquid silicone

SI8250

■Technical Data Table

Properties before curing			
Property	Standard/Units	SI8250 A	SI8250 B
Ingredient	----	Polysiloxane	Hydrogen polysiloxane
Appearance	Visual inspection	Colorless liquid	Colorless liquid
Viscosity	mPa·s (25°C)	4000-6000	4000-6000
Density	g/cm3 (25°C)	0.99	0.99
Allocation method	----	Injection molding	
Mixing ratio	Mass ratio	A:B=100:100	
Working time	25°C, mins	100	
	28°C, mins	70	
Curing condition	25°C, hrs	24	
	100°C, hrs	1	
	100°C, hrs	3 (with good bonding strength)	
Properties after curing			
Hardness	shore A	50	
Tensile strength	MPa	5.5	
Elongation	%	100	
Shear strength	N/mm2	3	
Index of refraction	25°C	1.4120	
Light Transmission	450nm@1mm,%	> 90	
Volume resistance	ohm.cm	2×10^{15}	
Dielectric constant	1MHz	3.8	
Dielectric loss	1MHz	0.04	

Ion Contend	Na+, ppm	0.2
	K+, ppm	0.1
	Cl+, ppm	0.9

Note: Above data sheet just for reference, it's necessary to make test before application.

■Product Description

SI8250 is high purity two-component heat curing silicone materials. Primarily designed for the manufacture of optical device modules, and can be used for injection molding an optical lens and an optical wave guide coupling reduces scattering loss. Resistance to environmental pollution, moisture, shock, vibration, etc., Maintain optical properties, mechanical properties and electrical properties in a wide range of temperature, humidity and harsh environmental conditions

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■Key Features

1. High transparency
2. Excellent heat resistance
3. Long-term resistance to UV-A and UV-B
4. No yellowing
5. Fast curing and rapid demold
6. Extremely accurate molding effect
7. Lighter than glass

■Packing Specification

Part A: 0.5kg/Pot, Part B:0.5kg/Pot;

Part A:5kg/Pot, Part B:5kg/Pot.

■Transport &Storage

- When stored at or below 20°C dark and cool place in the original unopened containers, both Part A and Part B have a usable life of 12 months from the date of production..

It's non-dangerous goods, can be transported as normal chemicals, CAUTION leakage during transport.

.■Directions for Use

1. The substrate surface should be clean and dry. The substrate can be heated to remove surface moisture. Using naphtha, methyl ethyl ketoxime (MEK) or other suitable solvent to clean surface of the substrate. It should not use the solvent which dissolve or corrode to the substrate, should not use residual solvent.

2. Please keep accurate weigh to a clean glass container and mix thoroughly. When using high speed mixing equipment, heat will generate and the work time will reduce.

3. Under 10mmHg vacuum extrusion bubble. Usually prolapse bubbles before dispensing packaging material.

4. In most cases, the polysiloxane is suitable for working long hours at -45°C to 200°C, the maximum short-term resistant to 350°C, the specific use, it is best to test the actual requirements.

5. Before the uncured material, containing not touch N \ P \ S and other organic matter, cannot touch Sn \ Pb \ Hg \ Bi \ As the ionic compound, etc., cannot touch the acetylene-containing \ active vinyl compound, peroxide cannot touch not touch the water gas and alcohols. These substances will hinder curing material reaches a certain

concentration, the specific performance of three phenomena: the flow has been in a state completely cured, and the substrate base surface with thin fluid or in Las state, the contact surface and the substrate smiling bubbles. Fully test before use.

6. Should be cured by heating using a hot air oven ventilation to prevent the accumulation of trace amounts of hydrogen generated in the curing process to produce an explosion hazard.

■Attention of operation

●Keep away from Children

●Avoid contact with eyes and skin. If contact with your skin, scrub first with soap water or alcohol, then rinse with water. If contact with your eyes, rinse with plenty of water, and seek medical treatment immediately.

● It is forbidden to build on the surface of the wet substrate.

■Safety Operation Data

MSDS isn't included here. Please read TDS, MSDS and label carefully before operation. You can get MSDS from MAXTECH or other distributors, or mail to service center maxtech@shmaxtech.com

■Warranty and Liability

All product properties and application details based on information believe to be reliable and accurate. But you still need to test its property and safety before application. The advice we supply don't apply in any circumstances. MAXTECH don't make assurance of any other applications outside the specification until MAXTECH supply a special written guarantee. MAXTECH is only responsible to replace or refund if this product is defective within the warranty period stated above. MAXTECH makes it clear that will not be liable of any accidents.

Special Notes: All recommendations concerning our products, including transportation, storage, and handing are based on our current knowledge and experience under normal conditions. In practical application, results may differ because of materials and actual site conditions change, our company won't guarantee or bear any legal responsibility. In order to ensure the bonding effect and the compatibility of products and materials, it is recommended to do the compatibility test or consult MAXTECH Technical Services before proceeding with the full application.