



## TECHNICAL DATA SHEET

**CAS-TA40A/B is a two-part, phenylsiloxane-based silicone material designed for high-performance LED and optical applications. Offers excellent thermal stability, moisture resistance, and optical clarity.**

### Characteristic

1. Two-component
2. High transparency
3. Rapid curing
4. Adjustable refractive index
5. Excellent thermal stability

### Application

1. Optical encapsulation
2. LED lenses and optical components
3. High-purity electronic applications

### Basic performance

The following values are not used as specifications, but only as reference indicators.

Item	Method	Value
Appearance	Visual	Transparent
Density(g/cm <sup>3</sup> )	JIS K6268	1.135
Viscosity(10 <sup>4</sup> ·mPa·s)	JIS K6268	1.0~1.5
Hardness (Shore D)	GB/T 531.1-2008	40
Tensile Strength(MPa)	GB/T 528-2009	3
Elongation at Break(%)	GB/T 528-2009	300
Tear Strength(kN/m)	GB/T 528-2009	18
Refractive Index	-	1.465

### Curing

130°C\*5min



## Operation

### 1. Mixing ratio:

A:B two components are mixed in the ratio of 1:1. In order to ensure their best properties, components A and B must be fully mixed. If the mixing is insufficient, it may cause incomplete curing or weakening of physical properties. The raw materials can be directly extracted into the mixing chamber by automatic metering mixing equipment for mixing. Some applications are sensitive to air. At this time, venting in the mold or using vacuum auxiliary equipment will be helpful.

## Product safety message

Please contact the sales representative of Newsil to obtain the relevant material safety data sheet, and please read the material safety data and product identification label carefully before using the product to prevent harm to yourself and the environment.

## Package

1 kg / barrel, standard plastic barrel.

5 kg / barrel, the standard plastic barrel.

## Storage and shelf life

Storage temperature  $-5 \sim 25^{\circ}\text{C}$ , humidity  $\leq 65\%$

Expiration: 6 months

## Use restrictions

This product has not been tested and can not be used for medical or medicinal purposes.

## Limited warranty message

The information provided in this document is honest and accurate. However, since the conditions and methods of actual use of the product are beyond our control, the tests conducted by the customer for end use are not covered by this information.