

## TSC-F169

### Two-component Silicone Foam

TSC-F169 is a two-component, low density silicone sealant adhesive, which cures at room temperature to form a flexible and durable protective layer. It is designed to be dispensed and cured directly on parts to form an intergrated compression gasket. It is low to medium hardness product, primarily developed as a dispensed "foamed-in-place" gasket material for the automotive and industrial assembly & maintenance industries.

#### FEATURE

- Low to medium hardness (Shore 00)
- User-friendly, easy to handle 1:1 mix ratio
- Fast ambient temperature cure
- Low compression set which is retained at high service temperatures
- Stable and flexible over a wide temperature range
- Flame retardant UL-94, V0

#### RECOMMENDED APPLICATIONS

- Various industries: Home Appliance, Automotive, E-Vehicle, Nuclear Power, Electronics, Buffer and Damping Absorption, etc.
- Ultra-low smoke density for car, high-speed rail, flight seats and other applications with similar strict requirements.

#### TYPICAL UNCURED PROPERTIES

Properties	TSC-F169A	TSC-F169B	Test Method
Color	Gray	Light Gray	Visual
Specific gravity	1.2±0.05	1.2±0.05	GB/T 1347
Viscosity *25°C, cps	6000 ~ 8000	5000 ~ 6000	GB/T 2794
Mix ratio by weight	100	100	/
Working time *25°C, min	≤2		/
Table stem *25°C	≤30		GB/T 13477
Curing Time *25°C, Hours	4		/
Flame Retardant	V0		UL-94

#### TYPICAL CURED PROPERTIES

Appearance	Gray elastomer
Density (g/cm <sup>3</sup> )	0.3±0.05
Hardness (Shore 00 A)	50 - 60

#### DIRECTIONS OF USE

1. The two components should be mixed in a exact ratio of 1:1, and should be measured using specialized devices such as gear pump and mixed by dynamic method. The mixing method and degree will seriously affect the foam structure, density and quality of the finised product. It should be confirmed on the adhesive mixer according to weight mixing ratio - 1:1.
2. After the two components TSC-F169A & TSC-F169B are mixed, chemical reactions will occur immediately to produce flammeble hydrogen gas. Special attention should be paid, and sufficient ventilation should be provided to prevent the accumulation of hydrogen gas.
3. Some materials, chemicalsm curing agents and plasticizers may inhibit the curing of TSC-F169. In double about whether the substrate will inhibit the curing agent, it is recommended to conduct small-scale compatibility experiment.
4. This product is better to some base materials than others. If the foam solidifies at a higher temperature, it is easy to bond with the metal and glass substrate. No matter what the substrate is, in order to achieve the best bonding effect, it should be clean, dirt or impurities removed. However, some cleaners may leave residues and affect bonding result. Some substrates may rewuire other treatments to achieve good bonding effects even after the necessary cleaning, including plasma, corona or flame treatments and chemical undercoating.

#### STORAGE AND SHELF LIFE

The product should be stored in temperature range frm 5 to 30 C for 6 months from the date for production.

This product is non-dangerous goods, stored and transported as non-dangerous goods.

#### TYPICAL PACKAGING

PE-F6004A	10kg
PE-F6004B	10kg

The data contained in this bulletin is provided only as a guide for evaluation/consideration. These material characteristics are typical properties that are based on a limited number of samples tested in the laboratory. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any product or method. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide.