

TECHNICAL DATA SHEET

SE2010 2 part gap filler

Description

This is a two part, thermally conductive, thixotropic material, which cures at room temperature or can be accelerated with heat. It is specifically formulated to give low hardness and resistance to slump and features low and high temperature mechanical and chemical stability. It remains flexible and has a natural low level tack, ideal for applications where a strong mechanical or chemical bond is not required. It has a controlled volatile content and an easy mix ratio by volume or weight.

Key Features

- Thermally conductive
- UL94 V0 listed in file No. E334038
- Controlled volatile content
- Non slumping

Application

Gap filler as a removable thermal interface between heat sink and heat source, micro processors and automotive electronics

Use and Cure Information

IMPORTANT:

The 'A' part of product contains the platinum catalyst; great care should be taken when using automatic dispensing equipment. Please ensure that it is not contaminated by residual hydride containing rubber in the dispensing equipment, as curing will result. If in doubt, it's advised to thoroughly purge the equipment with a suitable hydrocarbon solvent or silicone fluid.

Mixing

This gap filler can be supplied in bulk containers for use with automatic mixing equipment or in a twin cartridge system and static mixer to provide for easy application and mixing.

Inhibition of Cure

Great care must be taken when handling and mixing all addition cured silicone elastomer systems, ensuring that all the mixing tools (vessels and spatulas) are clean and constructed in materials which do not interfere with the curing mechanism. The cure of the rubber can be inhibited by the presence of compounds of nitrogen, sulphur, phosphorus and arsenic; organotin catalysts and PVC stabilizers; epoxy resin catalysts and even contact with materials containing certain of these substances e.g. moulding clays, sulphur vulcanised rubbers, condensation cure silicone rubbers, onion and garlic.

Curing Conditions

The data offers a guide to the rate of cure at various temperatures, mixing of the components at temperatures between 15 and 25°C is recommended to ensure adequate pot life for degassing and handling. The pot life can be extended to several hours by chilling the components before mixing.

It is important to check the compatibility in preliminary tests if unknown substrates are used.

Health & Safety

Health and Safety

Safety Data Sheets available on request.

Packaging

CHT Gap Fillers are available in a variety packaging including bulk containers. Please contact our sales department for more information.

Property

Uncured Product

Property	Test Method	Value
Color A		Pale grey
Color B		Black
Cure Type		Addition
De-mould Time / Full Cure at 23°C/73°F		5 hr hrs
Density A	BS ISO 2781	2.3
Density B	BS ISO 2781	2.3
Max Cure Mins @ 100 °C		2 mins
Mix Ratio By Weight		1:1
Pot Life mins at 23°C/73°F		60 min mins
Rheology		Paste
Viscosity A	Brookfield	248000 cP
Viscosity B	Brookfield	390000 cP
Viscosity Mixed	Brookfield	320000 cP

Cured Product

CTE Volumetric ppm/°C		558 ppm/°C
Color		Black
Density	BS ISO 2781	2.3 g/cm3
Hardness Shore 00	ASTM D 2240-95	50
Linear Coefficient of Thermal Expansion (ppm/°C)		186 ppm/°C
Linear Shrinkage (%)		0.1 %
Max Working Temp		200 °C / 392 °F
Min Working Temp		-60 °C / -76 °F
Thermal Conductivity		1.7 W/mK
UL 94V-0		Yes
UL File No.		E334038

Electrical Properties

Dielectric Constant	ASTM D-150	4.9
Dissipation Factor	ASTM D-150	0.006
Volume Resistivity (Ohms cm)	ASTM D-257	9.26E+12 ohms cm

Storage

Max Storage Temperature		25 °C / 77 °F
Shelf Life		6 mths

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The CHT technical service department is available to offer further information and advice and should it be needed to look at modifying current products or custom formulate a new one to meet your specific requirements. Please contact the technical service department.

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