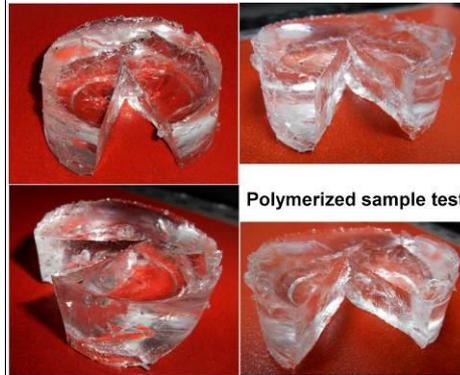




SOFT SIL GEL32

Data sheet



Fast cure silicone gel

Introduction

SOFT SIL GEL32 is a soft, adherent, clear general purpose silicone elastomeric gel designed for use electronic and electrical application for encapsulation and Potting.

It is a low viscosity, 2-component system that is readily mixed in a 1:1 ratio.

It is used also to enhance the performance of textiles, providing a moisture resistant, soft, flexible layer to fabric applications and is specially recommended for use in adjusting the modulus properties of mattresses.

Key Features

- General purpose silicone gel
- Simple 1 to 1 mix ratio
- Fast cure at room temperature

Use and Cure Information

How to Use

SOFT SIL GEL32 is supplied in several pack sizes and consists of kits containing equal quantities of Parts 'A' and 'B'.

Containers should always be kept sealed when not in use, and all mixing equipment must be clean and free from contaminants such as organo-tin, -sulphur, -nitrogen compounds which can poison the catalyst and prevent proper cure.

Application and Cure

Each of the **SOFT SIL GEL32** component parts should be mixed in the recommended one-to-one ratio (by volume or weight).

Automated mixing and dispensing is recommended for this product due to the very short pot life.

Please our sales Manager to discuss machine dispensing options.

The curing process begins as soon as the components are mixed and the working or pot life of the mixed system is dependent on the ambient temperature conditions.

Note: Chilling the separate component parts, before and after mixing, will extend the pot life, but not indefinitely.



Adhesion

Fully cured **SOFT SIL GEL32** exhibits good adhesion to most substrates such as:
Aluminium, stainless steel, ABS, polycarbonate, PCB boards, Nylon 6,6

Inhibition of Cure

Great care must be taken when handling and mixing all addition cured silicone elastomer systems, 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 vulcanized rubbers, condensation cure silicone rubbers, onion and garlic.

Uncured Product

Colour: **Transparent**

Appearance: **Transparent liquid**

Viscosity A Part: **450 mPa.s**

Viscosity B Part **450 mPa.s**

Catalysed viscosity **450mPa.s**

Pot Life: **5 minutes ***

SG specific gravity 'A'Part **0.97**

SG specific gravity 'B'Part **0.97**

* measured at 23+/-2°C and 65% relative humidity

Cured Elastomer

(after 7 days cure at 23+/-2°C and 65% relative humidity)

Penetration (Cone Weight): **19.5/6.0mm mm**

Specific gravity: Part A1 **0.97**

Min. Service Temperature: **-50°C**

Max. Service Temperature: **180 °C**

Electrical Properties

Volume Resistivity: **2.0E+15 Ω.cm**

Curing Time

Temperature °C	Time
25	1 hour
100	35 mins

All values are typical and should not be accepted as a specification.
Material Safety Data Sheets available on request.

Storage and Shelf Life – Expected to be **12 months** in original, unopened containers below 40°C.



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Package

Cod. VSOFTSILG3203 single envelope with tow pocket of **300 gr** (150 gr part A + 150 gr part B)
Cod. VSOFTSILG3204 single envelope with tow pocket of **400 gr** (200 gr part A + 200 gr part B)
Cod. VSOFTSILG321 tow bottles of **500 gr** (500 gr part A + 500 gr part B)
Cod. VSOFTSILG322 two bottles of **1 kg** (1 kg part A + 1 kg part B)
Cod. VSOFTSILG3210 two tank of **5 kg** (5 kg part A + 5 kg part B)
Cod. VSOFTSILG3220 two tank of **10 kg** (10 kg part A + 10 kg part B)
Cod. VSOFTSILG3250 tow tank of **25 kg** (25 kg part A + 25 kg part B)