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EGEL3004 Silicone Gel thixotropic

Introduction

EGEL3004 is one of a family of soft, adherent, clear silicone elastomeric gels designed for the encapsulation and protection of electronics components. It is a low viscosity, 2-component system that is readily mixed in a 1:1 ratio.

It is used to provide protection from vibration, thermal or mechanical shock. It has excellent dielectric properties and also gives excellent protection from water and many environmental contaminants

Key Features

- > UV trace pigment
- Meets the requirements of UL94V1
- Instant thixotropy upon mixing A and B parts together

Use and Cure Information

How to Use

EGEL3004 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 **EGEL3004** component parts should be mixed in the recommended one-to-one ratio (by volume or weight). This can be done readily either by hand for small scale trials but a dispensing machine is required for larger volumes. ACC have a range of dispensing machinery suitable for use with EGEL3004, please contact your Regional Sales manager for further information.

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 **EGEL3004** 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 vulcanised rubbers, condensation cure silicone rubbers, onion and garlic.

Property	Test Method	Value
Uncured Product Colour:		Translucent
Appearance:		Liquid
Viscosity A Part:	Brookfield	2900 mPa.s
Viscosity B Part	Brookfield	2400 mPa.s
Pot Life:		10 minutes *
SG 'A'Part		1.00
SG 'B'Part		1.00

Cured Elastomer

* measured at 23+/-2°C

(after 7 days cure at 23+/-2°C)

Specific Gravity:
Hardness:
Min. Service Temperature:
Max. Service Temperature:
CTE Volumetric
CTE Linear

BS 903 Part A1
58 Shore 00
50°C
200°C
200°C
200°C
310 ppm/C

Electrical Properties

Volume Resistivity: ASTM D-257 **2E+15 Ω.cm**

Curing Time

Temperature °C Time **25 0.5 hrs**

All values are typical and should not be accepted as a specification.

Health and Safety - Material Safety Data Sheets available on request.

Packages -

2 kg kits supplied in 1 litre plastic bottles and 40 kg kits supplied in 20 litre pails.

Storage and Shelf Life – Expected to be 18 months in original, unopened containers below 40°C.

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