TECHNICAL DATA SHEET



508 V/mil

30 °C / 86 °F

5 °C / 41 °F

ALPA-GEL M Silicone Gel

Key Features

Dagarintian

- Very low viscosity
- Highly transparent
- Crosslinking nearly without shrinkage
- · Crosslinking accelerated through heat

Use and Cure Information

IMPORTANT:

In order to achieve optimum performance, the same lot number of the A and B components should be used. Mixed lots may not obtain the performance criteria listed on the TDS or Certificate of Analysis.

The 'A' part of the 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 (Part B) in the dispensing equipment, as curing will result. If in doubt, it is advised to thoroughly purge the equipment with a suitable hydrocarbon solvent or silicone fluid.

Mixing

Both the 'A' and 'B' parts should be well stirred to ensure the material is uniform and any settled the fillers have been remixed.

Place the required amount of 'A' and 'B' parts by weight at the mix ratio shown opposite, in a clean plastic or metal container of approximately 3 times their volume, and mix until the colour of the mixture is uniform. For best results, we recommend degassing. Degas by intermittent evacuation, the larger volume of the mixing

Test Method Property Value **Uncured Product** Color A transparent Color B transparent Addition Cure Type De-mould Time / Full Cure at 4 hrs 23°C/73°F Density A BS ISO 2781 0.98 Density B BS ISO 2781 0.98 Mix Ratio By Weight 1:1 Pot Life mins at 23°C/73°F 60 mins Rheology Gel 180 cP Viscosity A **Brookfield** Viscosity B **Brookfield** 3500 cP 2000 cP Viscosity Mixed **Brookfield Cured Product** Color **Transparent** Density 0.98 g/cm3 BS ISO 2781 200 °C / 392 °F Max Working Temp -50 °C / -58 °F Min Working Temp **Electrical Properties** Dielectric Constant ASTM D-150 2.8

mixture is uniform. For best results, we recommend degassing.

Shelf Life

6 mths

Degas by intermittent evacuation, the larger volume of the mixing vessel helps prevent overflow during this operation. In the case of automatic dispensing with static mixing head, the two components should be degassed before processing. Recommended vacuum conditions are 30-50 mbar intermittently over 5-10 minutes. Cast the mixture either

Storage

Dielectric Strength (V/mil)

Max Storage Temperature

Min Storage Temperature

Inhibition of Cure

by gravity or pressure injection.

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

Safety Data Sheets available on request.

Packaging

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

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