TECHNICAL DATA SHEET



QGel 302 Fast Curing, High Strength Silicone Gel

QGels are addition	on-cure clear,	soft, mod
silicone polymer	Silicone dels	provide p

derately cross-linked protection from moisture, vibration, thermal, or mechanical shock.

Key Features

Description

- Soft gel
- 1:1 mix ratio
- · Fast cure at room temperature

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 QGels contain the platinum catalyst; great care should be taken when using automated dispensing equipment to not cross-contaminate systems.

Mixing

Both the "A" and "B" parts should be well stirred to ensure the material is uniform. QGels should be mixed by weight. Once the components are mixed, the curing process begins. The gel time of the mixed material is listed under the typical properties. Fast curing gels should be dispensed utilizing automated mix and dispensing equipment. In order to achieve optimum performance, the same "A" and "B" side lot numbers should be used.

De-Aeration

Air trapped during mixing should be removed to eliminate voids in the cured product. Vacuum de-airing may be necessary to completely remove all entrapped air bubbles. To ensure proper de-airing, subject the mixed material to 29 inches of mercury.

Storage and Shelf-life

This product is best when used within 24 months from the date of manufacture, See product label and/or the CoA for specific "use by date".

Product should be stored in its original, unopened container in an environment that does not exceed 38C (100F)

Test **Property** Value Method **Uncured Product** 30 min at 150°C, 4 hrs at Cure Profile 25°C Cure Type Addition BS ISO Density A 0.97 2781 BS ISO Density B 0.97 2781 Gel Time at 25°C/77°F 30 min Mix Ratio By Weight 1:1 Rheology Gel Viscosity A Brookfield 800 cP

Brookfield

ASTM D-

257

800 cP

Cured Product

Viscosity B

Transparent Penetration (19.5g Cone 4 - 8 mm Weight) mm

Electrical Properties

Dielectric Constant 2.8 150 500 V/mil Dielectric Strength (V/mil) ASTM D-Dissipation Factor 0.001 150 Volume Resistivity (Ohms ASTM D-1E+15 ohms cm

Storage

cm)

Max Storage Temperature 38 °C / 100 °F Shelf Life 24 mths

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case, the properties required for the intended use should be checked for quality assurance reasons.

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