TECHNICAL DATA SHEET



QGel 343 Thixotropic silicone gel

Desc		

QGels are addition-cure clear, soft, moderately cross-linked silicone polymer. Silicone gels provide protection from moisture, vibration, thermal, or mechanical shock.

Key Features

- Both the QGel 343 A and QGel 343 B are flowable, but become thixotropic when mixed
- Mix ratio by weight: 1:1
- Mix ratio by volume: 100 parts "A" to 108 parts of "B" or 91.6 parts of "A" to 100 parts of "B"

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)

Property	Test Method	Value
Uncured Product		
Cure Profile		90 mins at 25°C, 30 mins at 150°C
Cure Type		Addition
Density A	BS ISO 2781	1.07

Density B

BS ISO 2781

Gel Time at 25°C/77°F

Mix Ratio By Weight

BS ISO 2781

20 min

1:1

Rheology Thixotropic
Viscosity A Brookfield 15,000 cP
Viscosity B Brookfield 2,850 cP

Cured Product

Color Translucent
Max Working Temp 204 °C / 399 °F
Min Working Temp -55 °C / -67 °F
Penetration (19.5g Cone Weight) mm 5 - 9 mm

Electrical Properties

Dielectric Constant

ASTM D150

Dielectric Strength (V/mil)

Dissipation Factor

Volume Resistivity (Ohms

ASTM D150

0.0055

2.65E+16 ohms cm

257

Storage

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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