

TECHNICAL DATA SHEET

QGel 313 Custom Silicone Gel

Description

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

Key Features

- 20:1 mix ratio
- Greater than 7-day room temperature work life
- Dispensing equipment not necessary
- Heat cure required

Use and Cure Information

Important

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)

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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Property

Uncured Product

Cure Type
Density A
Density B
Gel Time at 25°C/77°F
Mix Ratio By Weight
Rheology
Viscosity A
Viscosity B

Test Method

BS ISO 2781
BS ISO 2781
Brookfield
Brookfield

Value

Addition
0.97
0.97
> 7 days
20:1
Gel
300 cP
220 cP

Cured Product

Color
Max Working Temp
Min Working Temp
Penetration (19.5g Cone Weight) mm

Transparent
204 °C / 399 °F
-55 °C / -67 °F
3 - 7 mm

Storage

Max Storage Temperature
Shelf Life

38 °C / 100 °F
24 mths

The content set out in the technical data sheet does not contain information upon which you should rely. It is provided for general information purposes only and does not constitute a product specification. You must obtain professional or specialist advice before taking any action based on the information provided in the technical data sheet.

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The CHT technical service department is available to offer further information and advice and should it be needed to look at modifying current products or custom formulate a new one to meet your specific requirements. Please contact the technical service department.

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