TECHNICAL DATA SHEET



QGel 900 High Refractive Phenyl 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

- 1:1 mix ratio
- · Soft, but resilient gel
- Dispensing equipment not necessary
- Good adhesion with QSil Primer #5

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.

Property	Test Method	Value
Uncured Product		
Cure Profile		30 mins at 150°C, 60 mins at 100°C, 24 hrs at 25°C

 Cure Type
 Addition

 Density A
 BS ISO 2781
 1

 Density B
 BS ISO 2781
 1

Gel Time at 25°C/77°F

Mix Ratio By Weight

Viscosity A

Viscosity B

Brookfield

500 cP

Brookfield

500 cP

Cured Product

Color	Transparent
Max Working Temp	235 °C / 455 °F
Min Working Temp	-113 °C / -171 °F
Penetration (19.5g Cone Weight) mm	2 - 6 mm
Refractive Index	1.43
Refractive Index at 589 nm	1.43
Transmittance at 400 nm, 1 mm path (%)	89.95 %

Storage

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

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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