



# Technical Data Sheet

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## QGel 313 Custom Silicone Gel

### PRODUCT DESCRIPTION

QGel 313 is a clear, soft, tough, moderately cross-linked silicone polymer. This product is a two component material with a 20:1 mix ratio by weight or by volume. It can also be mixed at a 10:1 ratio by weight or by volume which will yield a harder gel.

### KEY FEATURES

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

### TYPICAL PROPERTIES

UNCATALYZED		
TEST	A	B
Appearance	Transparent	Transparent
Viscosity	310 cps	220 cps
Specific Gravity	0.97 g/cm <sup>3</sup>	0.97 g/cm <sup>3</sup>

CATALYZED	
MIX RATIO 20:1	
TEST	RESULT
Gel Time, 25C	> 7 days

CURED PROPERTIES	
60 Minutes at 150C	
Penetration, 20:1, 30 minutes at 150C	3 - 7 mm
Durometer, 10:1 Shore 00, 30 minutes at 150C	46 - 52 mm

ADDITIONAL PROPERTIES	
Service Temperature Range	-55 to 200C
Adhesion	QGel 313 requires the use of a primer to obtain effective adhesion.
Electrical Properties	Excellent dielectric strength



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### **MIXING**

QGel 313 should be thoroughly mixed using a 20:1 ratio by weight or by volume. Once the components are mixed the curing process begins. The gel time of the mixed material is listed above under typical properties.

### **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 insure proper de-airing, subject the mixed material to 29 inches of mercury.

### **STORAGE AND SHELF LIFE**

If QGel 313A and QGel 313B are in an environment that does not exceed 25C (77F) then QSi will warranty the material for a period of one year from the date of shipment.

### **DISCLAIMER**

The technical data listed is provided for reference only and is not intended as product specifications. QSi has the capability to customize products as requested. For sales and technical assistance please contact customer service at **(804) 271-9010** or **1-800-852-3147**.

*Visit our website at [www.quantumsilicones.com](http://www.quantumsilicones.com).*