



## Technical Data Sheet

### QGel312A

Quantum Silicones' Custom Silicone Gel

#### **Product Description**

QGel 312 is a clear, soft, tough, moderately cross-linked silicone polymer. Silicone gels are used to provide protection from vibration, thermal or mechanical shock. Silicone gels also provide excellent moisture protection. This product is a two component material with a 10:1 mix ratio.

#### **Key Features**

- 10:1 mix ratio
- 24 hour room temperature cure or heat cure
- soft but resilient gel
- Dispensing equipment not necessary

#### **Typical Properties**

<b>Uncatalyzed Properties</b>		
	<b>"A" Component</b>	<b>"B" Component</b>
Appearance	Transparent	Transparent
Viscosity, cps	1060	270
Specific Gravity	0.97	0.97

<b>Catalyzed Properties</b>	
Mix Ratio	10:1
Pot Life, 25°C, hours	8 to 16
Cure Time	30 min @ 150°C
	60 min @ 100°C
	24 hours @ 25°C
Volatiles, %	0.1 max. (cured sample)
Service Temperature Range	-55 to 200°C
Adhesion	Silicone gels have a tacky surface and will form a mechanical bond to most substrates
Cured 30min @150C	
Penetration, mm 19.5gram force	3.5mm
Penetration, mm 69.5gram force	12.4mm

## **Electrical properties**

QGels have excellent dielectric strength

## **Instructions for use**

### **Mixing**

The convenient one to one mix makes QSi's QGels very easy to mix. Mix equally and thoroughly by weight or volume. Once the components are mixed the curing process begins. The pot life of the mixed material is shown under typical properties. Fast curing gels (less than 30 minutes pot life) should be dispensed utilizing automated mix and dispense equipment.

### **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**

QGels should be stored in the original unopened container at 25C (77F). They will remain useful for a period of 12 months if stored under those conditions.

### **Not for Product Specification**

This product is for industrial use only. The technical data listed herein is provided as a reference only and **is not** intended as sales specifications. For sales and technical assistance or for product recommendations, please call 1-800-852-3147.

Quantum Silicones  
8021 Reycan Rd  
Richmond, VA 23237  
Phone (804) 271-9010 Fax (804) 271-9055  
Customer Service (800)852-3147  
[www.quantumsilicones.com](http://www.quantumsilicones.com)