



Technical Data Sheet

QGel 920

Quantum Silicones, high refractive index silicone gel

Product Description

QGel 920 is a clear, very soft, tough, moderately cross-linked silicone polymeric elastomer. This product enhances the unique QGel line offering exceptional clarity for optical transmission applications. QGels provide compliant, self healing protection to sensitive devices isolating them from shock, vibration, and CTE stress. This pure silicone polymer further offers outstanding protection from moisture and equally outstanding electrical properties over a broad temperature range. QGel 920 is a two component product with a convenient 1:1 mix ratio.

Key Features

- one to one mix ratio
- 24 hour room temperature cure or heat cure
- soft but resilient gel
- Dispensing equipment not necessary
- Good adhesion with Primer #5

Typical Properties

Uncatalyzed Properties		
	“A” Component	“B” Component
Appearance	Transparent	Transparent
Viscosity, cps	1455	1645
Specific Gravity	1.00	1.00

Catalyzed Properties	
Mix Ratio	1:1
Pot Life, 25°C	~60 minutes
Cure Time	30 min @ 150°C
	60 min @ 100°C
	24 hours @ 25°C
Refractive Index	1.49
Service Temperature Range	-55 to 240°C
Adhesion	Silicone gels have a tacky surface and will form a mechanical bond to most substrates. Will form a covalent bond when Primer #5 is used.
Penetration, mm	4-9mm

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