



Data Sheet
QGel 317
Custom Silicone Gel

Product Description

QGel 317 is a pigmented, fast curing, very soft, 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. QSi's QGel product line are two component materials with a 1:1 mix ratio.

Key Features

- Fast cure
- one to one mix ratio
- soft but resilient gel
- Designed for mechanical dispensing

Typical Properties

Uncured properties

	<u>QGel 317A</u>	<u>QGel 317B</u>
Appearance	Clear	Transparent
Viscosity, cps	1000	1000
Specific gravity	0.97	0.97
Mix Ratio	1:1	
Pot life, 25C	5-10 minutes	

Cured properties

Cure Time	5 minutes @150C 10 minutes @100C 60 minutes @ 25C
Service Temperature Range	-55 to 200C
Adhesion	Silicone gels have a tacky surface and will form a Mechanical bond to most substrates
Penetration,mm	12-20

Electrical properties

Q-Gels have excellent dielectric strength

Instructions for use

Mixing

The convenient one to one mix makes QSi's Q-Gels 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.

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