



Technical Data Sheet

QGel 300 High Strength Silicone Gel

PRODUCT DESCRIPTION

QGel 300 is a clear, very 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.

KEY FEATURES

- Soft, with considerably higher strength than general purpose gels
- One to one mix ratio
- 24 hour room temperature cure
- Dispensing equipment not necessary

TYPICAL PROPERTIES

UNCATALYZED		
TEST	QGel 300 A	QGel 300 B
Appearance	Transparent	Transparent
Viscosity	1,000 cps	2,000 cps
Specific Gravity	0.97	0.97

CATALYZED	
MIX RATIO 1:1	
TEST	RESULT
Gel Time at 25°C *	135 minutes

* Gel time is defined as the time required for the material to become a solid or a semi-solid.

CURED PROPERTIES	
Cure Profile	30 minutes at 150°C
	60 minutes at 100°C
	20 hours at 25°C
Penetration, 30 minutes at 150C	5 – 9 mm

ELECTRICAL PROPERTIES	
Dielectric Strength	499 V/mil
	19.6 kV/mm

ADDITIONAL PROPERTIES	
Service Temperature Range	-55°C - 204°C
Adhesion	Excellent adhesion to glass, copper and to select other substrates



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MIXING

QGel 300 should be thoroughly mixed using a 1:1 ratio by weight. Once the components are mixed the curing process begins. The gel time of the mixed material is listed above under typical properties. Fast curing gels (less than 30 minute gel-time) 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 ensure proper de-airing, subject the mixed material to 29 inches of mercury.

STORAGE AND SHELF LIFE

If QGel 300 A and QGel 300 B are stored in their original unopened containers, in an environment that does not exceed 38°C (100°F) then QSi will warranty the material for a period of 12 months 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.

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