



Technical Data Sheet

QGel 343

Thixotropic Silicone Gel

PRODUCT DESCRIPTION

QGel 343 is a translucent, hard, tough, moderately cross-linked silicone polymer. Silicone gels are used to provide protection from vibration and thermal or mechanical shock. Silicone gels also provide excellent moisture protection.

KEY FEATURES

- Both the QGel 343 A and QGel 343 B are flowable, but become thixotropic when mixed
- Mix ratio by weight: 1:1
- Mix ratio by volume: 100 parts “A” to 108 parts of “B” or 91.6 parts of “A” to 100 parts of “B”

TYPICAL PROPERTIES

UNCATALYZED		
TEST	QGel 343 A	QGel 343 B
Appearance	Translucent	Translucent
Viscosity	15,000 cps	2,850 cps
Specific Gravity	1.07	0.98

CATALYZED	
MIX RATIO 1:1 by weight	
MIX RATIO by volume 108 parts A: 100 parts B or 100 parts A: 91.6 parts B	
TEST	RESULT
Gel Time at 25°C *	20 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
	90 minutes at 25°C
Penetration, 20 minutes at 150°C	5 - 9 mm

ELECTRICAL PROPERTIES	
Dielectric Strength	506 V/mil
	19.9 kV/mm
Dielectric Constant @ 1000 Hz	2.82
Dissipation Factor @ 1000 Hz	0.0055
Volume Resistivity	2.65 X 10 ¹⁶ ohm-cm

ADDITIONAL PROPERTIES	
Service Temperature Range	-55°C - 204°C
Adhesion	Silicone gels have a tacky surface and will form a mechanical bond to most substrates.



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MIXING

QGel 343 B should be thoroughly mixed prior to catalyzation.

QGel 343 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 343 A and QGel 343 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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Quantum Silicones Headquarters

*7820 Whitepine Road
Richmond, VA 23237*

Manufacturing, Research and Development Facility

*8021 Reycan Road
Richmond, VA 23237*

Phone: 804-271-9010

Fax: 804-271-9055

Toll Free: 800-852-3147