



Technical Data Sheet

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QGel 300Y High Strength Silicone Gel

PRODUCT DESCRIPTION

QGel 300Y is a 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 the General Purpose Gel
- one to one mix ratio
- 24 hour room temperature cure
- Dispensing equipment not necessary

TYPICAL PROPERTIES

UNCATAYLZED		
TEST	A	B
Appearance	Transparent	Yellow
Viscosity	1000 cps	2000 cps
Specific Gravity	0.97 g/cm ³	0.97 g/cm ³

CATAYLZED	
MIX RATIO 1:1	
TEST	RESULT
Gel Time, 25C	60 minutes

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

ADDITIONAL PROPERTIES	
Service Temperature Range	-55 to 200C
Adhesion	Excellent adhesion to glass, copper and to select other substrates
Electrical Properties	Excellent dielectric strength



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MIXING

QGel 300Y 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 insure proper de-airing, subject the mixed material to 29 inches of mercury.

STORAGE AND SHELF LIFE

If QGel 300YA and QGel 300YB are in an environment that does not exceed 25C (77F) then QSi will warranty the material for a period of one year 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.

Visit our website at www.quantumsilicones.com.