



Technical Data Sheet

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QGel 302

Fast Cure, High Strength Silicone Gel

PRODUCT DESCRIPTION

QGel 302 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 Gel
- One to one mix ratio
- Fast cure at room temperature

TYPICAL PROPERTIES

UNCATALYZED		
TEST	A	B
Appearance	Clear	Clear
Viscosity	750 cps	745 cps
Specific Gravity	0.97 g/cm ³	0.97 g/cm ³

CATALYZED	
MIX RATIO 1:1	
TEST	RESULT
Gel Time, 25C	20-40 minutes

CURED PROPERTIES	
Penetration, 30 minutes at 150C	4 – 8 mm
Penetration, 4 hours at 25C	4 – 8 mm

ELECTRICAL PROPERTIES	
Dielectric strength	500 V/mil
Dielectric constant, 1000Hz	2.8
Dissipation factor, 1000Hz	0.001
Volume resistivity, Ohm-cm	1 X E ¹⁵



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MIXING

QGel 302 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 302A and QGel 302B 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.