



Technical Data Sheet

QSi 550LV A/C Addition Cure Potting Material

PRODUCT DESCRIPTION

QSi 550LV A and C is a 100% silicone solids elastomer designed for electronic potting applications. The two-component system offers a hard, thermally conductive, low modulus material that is readily repairable.

KEY FEATURES

- 100% solids - no solvents
- Room temperature cure

TYPICAL PROPERTIES

UNCATALYZED		
PROPERTY	QSi 550LV A	QSi 550LV C
Appearance	Beige	Black
Viscosity	1,300 cps	1,300 cps
Specific Gravity	1.41	1.41

CATALYZED	
MIX RATIO 1:1	
Gel time at 25°C *	110 minutes

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

CURED PROPERTIES	
7 minutes @ 150°C	
PROPERTY	RESULT
Durometer, Shore A	62
Tensile	450 psi
Elongation	90 %
Tear	20 ppi
Youngs modulus	450 psi

ELECTRICAL PROPERTIES	
PROPERTY	RESULT
Dissipation factor	0.001
Dielectric constant @ 1000Hz	3.12
Volume resistivity	1.47×10^{15} ohm-cm



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UL LISTED (FILE NUMBER QMFZ2.E205830)	
UL 94 V-0	3.0 mm

THERMAL PROPERTIES	
PROPERTY	RESULT
Thermal conductivity**	~ 0.37 W/m-K
Useful temperature range	- 55°C – 204°C

MIXING

In order to achieve optimum performance the same lot number of QSi 550LV A and QSi 550LV C should be used.

QSi 550LV A and QSi 550LV C should be thoroughly mixed prior to catalyzation.

Mixing by hand:

Catalyze QSi 550LV A with QSi 550LV C at a 1:1 ratio by weight using a clean plastic or metal container of approximately 3 times the volume of the material to be mixed and mix by hand. Accurate weighing of all components, on a suitable scale, is essential for optimal product performance when mixing by hand. Mix until the material is uniform with no visible striations.

Mixing and dispensing with automatic equipment:

Use a mixing system that will properly mix the QSi 550LV A and QSi 550LV C at a 1:1 ratio by weight.

DE-AERATION

Air trapped during mixing should be removed by vacuum at 29 inches of mercury. During the process, the material will expand and intermittent evacuation may be required.

Machine mixed material does not normally need to be de-aired.

STORAGE AND SHELF LIFE

If QSi 550LV A and QSi 550LV C 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.



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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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