

Technical Data Sheet

QSil 562 Addition Cure Potting Material

PRODUCT DESCRIPTION

QSil 562 is a 100% silicone solids elastomer designed for electronic potting applications. The two-component system offers a flame retardant, thermally conductive, low modulus material that is readily repairable and has a 150 °C RTI rating.

KEY FEATURES

- 100% solids no solvents
- Fast curing
- Low modulus
- Good elongation
- 150 °C RTI rating
- UL 94 V-0

TYPICAL PROPERTIES

UNCATALYZED				
PROPERTY	QSil 562 A	QSil 562 B		
Appearance	Dark Gray	Beige		
Viscosity	6,000 cps	4,500 cps		
Specific Gravity	1.60	1.60		

CATALYZED PROPERTIES		
MIX RATIO 1:1		
PROPERTY	RESULT	
Work Life *	90 minutes	
Gel Time at 25 °C **	4 hours	

^{*} Work life is defined as the time required for the material to double in catalyzed viscosity.

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

CURED PROPERTIES		
15 minutes at 150 °C		
PROPERTY	RESULT	
Durometer	60, Shore A	
Tensile	250 psi	
Elongation	100%	
Tear	20 ppi	

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ELECTRICAL PROPERTIES		
PROPERTY	RESULT	
Dissipation Factor	0.002	
Dielectric Constant at 1,000 Hz	3.50	
Volume Resistivity	1 x 10 ¹⁵ ohm-cm	

UL LISTED (FILE NUMBER QMFZ2.E205830)		
UL 94 V-0 compliant	3.0 mm	
RTI	150 °C	
СТІ	0	

THERMAL PROPERTIES **			
PROPERTY	RESULT		
Thermal Conductivity**	~ 0.62 W/m-K		
Useful Temperature Range	-55 °C – 240 °C		

^{**} Hot wire method, based on similar product performance

MIXING

In order to achieve optimum performance, the same lot number of QSil 562 A and QSil 562 B should be used.

QSil 562 A and QSil 562 B should be thoroughly mixed prior to catalyzation.

Mixing by hand:

Catalyze QSil 562 A with QSil 562 B at a 1:1 ratio by weight using a clean plastic or metal container of approximately 3 times the volume of the material and mix by hand. Accurate weighing of all components, on a suitable scale, is essential for optimal product performance when mixing by hand.

Mixing and dispensing with automatic equipment:

Use a mixing system that will properly mix the QSil 562 A and QSil 562 B 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.

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STORAGE AND SHELF LIFE

This product is best when used within 24 months from date of manufacture. See product label and/or CoA for specific "Use By Date".

Product should be stored in its original, unopened container in an environment that does not exceed 38 °C (100 °F).

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case, the properties required for the intended use should be checked for quality assurance reasons.

DISCLAIMER

The technical data listed is provided for reference only and is not intended as product specifications. CHT USA's team accepts opportunities to either modify specifications in a current product or custom formulate a new one to meet your requirements. For sales and technical assistance, please contact us at: (804) 271-9010 or 1-800-852-3147.

Please be sure to visit our website daily for our complete product portfolio, new product introductions and more:

www.silicone-experts.cht.com www.quantumsilicones.com

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