

Technical Data Sheet

QSil 6201 Condensation Cure, Silicone Potting Material

PRODUCT DESCRIPTION

QSil 6201 is a 100% silicone solids elastomer designed for electrical potting applications. The two-component system offers quick curing, low modulus, self-bonding material. This material also has good primerless adhesion to a variety of substrates.

KEY FEATURES

- 100% solids
- Fast curing
- Low viscosity, very flowable
- Excellent adhesion to many substrates including polycarbonate, PPO/PS & PPE/PS blends
- UL Listed file number - E205830
- Meets UL requirements for solar J-box potting

TYPICAL PROPERTIES

UNCATAYLZED		
PROPERTY	QSil 6201	QSil Cat 6201
Appearance	Black	Clear
Viscosity	6,200 cps	30 cps
Specific Gravity	1.21	0.96

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CATALYZED 24 hours at 25 °C	
MIX RATIO 100:4 by weight, 20:1 by volume	
PROPERTY	RESULT
Gel Time at 25 °C *	3 minutes
Durometer	30, Shore A
Adhesion	
Aluminum	Cohesive Failure
Polycarbonate	Cohesive Failure
PPE/PS Blends	Cohesive Failure
PPO/PS Blends	Cohesive Failure
Lap Shear (polycarbonate/polycarbonate)	
12H at RT	58 lbf
24H at RT	64 lbf
72H at RT	67 lbf
168H at 85 °C/85%RH	64 lbf
1,000H at 85 °C/85RH	62 lbf
Minimum Cure Time to 100% Cohesive Failure	
Aluminum	4 hours
Polycarbonate	12 hours
PPE/PS Blends	12 hours
PPO/PS Blends	2 hours

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

UL Results at 3mm (File E205830)	
UL 94	V-1
HAI	1
HWI	3
CTI	0

ADHESION

Ensure the surface is clean and free of any foreign substances. Clean the surface of the substrate to be adhered to with a suitable solvent for best results.

MIXING

In order to achieve optimum performance, the same lot number of QSil 6201 and QSil Cat 6201 should be used.

QSil 6201 should be thoroughly mixed prior to use.

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Mixing by hand:

Mixing by hand **is not recommended** for this product. If mixing by hand, QSil 6201 is catalyzed with QSil Cat 6201 at a mix ratio of 100:4 by weight. The volume of the container should be 3 – 4 times the volume of the material to be mixed. 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:

QSil 6201 is catalyzed with QSil Cat 6201 at a 20:1 ratio by volume. Use a system that will properly mix the A and B components.

CHT USA has identified cartridges and static mixers that work extremely well with this material. Please contact your customer service representative for information on 400ml cartridges as well as for the appropriate static mixers.

This material can be easily machine dispensed and CHT USA has demonstrated this in conjunction with Graco. QSil 6201 can be readily dispensed through a PR-70V with excellent mixing with the appropriate static mixer. There are additional equipment suppliers who can also provide pumps that will adequately mix QSil 6201. Contact your sales or customer service representative for additional information.

DE-AERATION

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

STORAGE AND SHELF LIFE

This product is best when used within 12 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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