



Technical Data Sheet

QSi 550

Quantum Silicones' Silicone Potting Material

Product Description

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

Key Features

- 100% solids – no solvents
- Long pot life
- Low modulus
- Good elongation

Typical Properties

Uncatalyzed Properties	“A” component	“B” component
Viscosity, cps	4,000	4,000
Appearance	Beige	Black
Specific Gravity	1.41	1.41
Mix Ratio	1:1	
Pot Life	>30 minutes (customized cure available)	

Catalyzed Properties (cured 7 minutes @ 150C)	
Durometer, shore A	55
Tensile, psi	>500
Elongation, %	>120
Tear, die B, ppi	>20
100% modulus, psi	~300

UL 94	
3.0mm	V-0
1.5mm	V-1

Thermal Conductivity**	
W/mK	0.37
Electrical Properties	
Dielectric Strength, V/mil	490
Dielectric Constant (1000Hz)	3.00
Volume Resistivity, Ohm-cm	1×10^{14}

**Production material not tested; results based on similar material

Mixing

Thoroughly stir both A and B components prior to mixing together.

Mixing by hand

Combine equal parts of A and B component by weight and stir until completely mixed. Use care when mixing to minimize air entrapment.

Mixing and dispensing with automatic equipment.

Use properly ratioed equipment for a 1:1 mix ratio. Also use a mixing system that will properly mix A and B components. Once mixed properly the material will have a pot-life of >30 minutes

Storage and Shelf Life

QSil 550 should be stored in the original unopened container at 25C (77F). It will remain useful for a period of 12 months if stored under those conditions.

Not for Product Specification

The technical data listed herein is provided as a reference only and **is not** intended as sales specifications. For sales and technical assistance or for product recommendations, please call 1-800-852-3147.

Quantum Silicones
8021 Reycan Rd
Richmond, VA 23237
Phone (804) 271-9010 Fax (804) 271-9055
Customer Service (800)852-3147
www.quantumsilicones.com