



*Technical Data Sheet*

**QSil 550R**

*Quantum Silicones' Silicone Potting Material*

**Product Description**

QSil 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**

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

<b>Catalyzed Properties (cured 7 minutes @ 150C)</b>	
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

\* Production material not yet tested, results based on performance of similar material

Thermal conductivity**	
W/mK	0.37
Electrical Properties	
Dielectric Strength, V/mil	490
Dielectric Constant (1000Hz)	3.00
Volume Resistivity, Ohm-cm	1 x 10 <sup>14</sup>

\*\* 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 550R 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 1-866-303-LEAP.

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