



## Technical Data Sheet

### QSi 553

Quantum Silicones' Silicone Potting Material

#### **Product Description**

QSi 553 is a 100% silicone solids elastomer designed for electronic potting applications. This two component system offers a flame retardant, thermally conductive, low modulus material that is readily repairable.

#### **Key Features**

- 100% solids – no solvents
- Long pot life
- Low modulus
- Good elongation
- UL-94 V-0 Rating

#### **Typical Properties**

<b>Uncatalyzed Properties</b>	<b>“A” component</b>	<b>“B” component</b>
Viscosity, cps	5,000	3,500
Appearance	Beige	Black
Specific Gravity	1.60	1.60
Mix Ratio	1:1	
Pot Life	>120 minutes (max 25,000cps)	

<b>Catalyzed Properties (cured 7 minutes @ 150C)</b>	
Durometer, shore A	40
Tensile, psi	175
Elongation, %	200
Tear, die B, ppi	25
100% modulus, psi	<150

<b><u>Flammability</u></b>	
UL 94 *	
3.0mm	V-0
1.5mm	V-1

<b>Thermal conductivity**</b>	
W/mK	0.68
<b>Electrical Properties</b>	
Dielectric Constant (1000Hz)	3.41
Dissipation Factor	0.00496
Volume Resistivity, Ohm-cm	$3.25656 \times 10^{14}$

\*\* Production material not tested, results based on similar material

## **Instructions for use**

### **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 120 minute pot life.

### **Storage and Shelf Life**

QSil 553 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.

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