



## Technical Data Sheet

### QSil 557

Quantum Silicones' Silicone Potting Material

#### **Product Description**

QSil 557 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	6,500	6,000
Appearance	Beige	Black
Specific Gravity	1.24	1.24
Mix Ratio	1:1	
Pot Life	150minutes* (customized cure available)	

\* Time to 25,000cps

<b>Catalyzed Properties (cured 20 minutes @ 150C)</b>	
Durometer, shore A	40
Tensile, psi	400
Elongation, %	200
Tear, die B, ppi	20
100% modulus, psi	150
Young's modulus	150

Electrical Properties	
Dielectric Strength, V/mil	490
Dielectric Constant (1000Hz)	3.00
Volume Resistivity, Ohm-cm	$1 \times 10^{14}$

### **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 557 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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