



*Data Sheet*  
**QSi 553**  
**Silicone Potting Material**

**Product Description**

QSi 553 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	5,000	3,500
Appearance	Beige	Black
Specific Gravity	1.60	1.60
Mix Ratio	1:1	
Pot Life	>120 minutes (max 25,000cps)	

Catalyzed Properties (cured 7 minutes @ 150C)

Durometer, shore A	32
Tensile, psi	175
Elongation, %	200
Tear, die B, ppi	25
100% modulus, psi	<150

Flammability

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

Thermal conductivity

W/m K	~0.68
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## **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 an 30 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.