



Data Sheet
QSil 553
Silicone Potting Material

Product Description

QSil 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

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.