



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

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	40
Tensile, psi	175
Elongation, %	200
Tear, die B, ppi	25
100% modulus, psi	<150

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

Thermal conductivity**	
W/mK	0.68
Electrical Properties	
Dielectric Strength, V/mil	490
Dielectric Constant (1000Hz)	3.00
Volume Resistivity, Ohm-cm	1×10^{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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