



Technical Data Sheet

QSil 430

Quantum Silicones' Silicone Potting Material

Product Description

QSil 430 is a 100% silicone solids elastomer designed for electronic potting applications. This two component system offers a quick curing, flame retardant silicone elastomer with excellent adhesion to a wide variety of substrates.

Key Features

- 100% solids – no solvents
- Quick curing
- Flame retardant - UL-94 V-0
- Great Adhesion to a variety of substrates

Typical Properties

Uncatalyzed Properties	“A” component	“B” component
Viscosity, cps	20,000	20,000
Appearance	Black	Beige
Specific Gravity	1.41	1.41
Mix Ratio	1:1	
Pot Life	6-10 minutes (anti-slump)	

Catalyzed Properties (24H 2 25C)	
Durometer, shore A	40
Tensile, psi	>400
Elongation, %	>100
Tear, die B, pli	>15

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

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

Thermal conductivity**	
W/mK	~0.30
Electrical Properties	
Dielectric Strength, V/mil	480
Dielectric Constant (1000Hz)	3.00
Volume Resistivity, Ohm-cm	1 x 10 ¹⁴

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

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 <5 minutes

Storage and Shelf Life

QSil 430 should be stored in the original unopened container at 25C (77F). It will remain useful for a period of 6 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.

Quantum Silicones
8021 Reygan Rd
Richmond, VA 23237
Phone (804) 271-9010 Fax (804) 271-9055
Customer Service (800)852-3147
www.quantumsilicones.com