



Product Data Sheet
QSi 431
Silicone Potting Material

Product Description

QSi 431 is a 100% silicone solids elastomer designed for electronic potting applications. This two component system offers a fast curing, low modulus material.

Key Features

- 100% solids – no solvents
- Fast Cure
- Low modulus
- Good primerless adhesion to a variety of substrates

Typical Properties

Uncatalyzed Properties

	“A” component	“B” component
Viscosity, cps	5,000	Slightly Thixotropic
Appearance	Beige	Black
Specific Gravity	1.13	1.08
Mix Ratio(A:B)	10:1	
Pot Life	5-10 minutes	

Catalyzed Properties (cured 24 hours @ 25C)

Durometer, Shore A	22
Adhesion to Aluminum	Cohesive Failure

Thermal conductivity**

W/mK	0.25
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Adhesion – Ensure that the surface is clean and free of any foreign substances. For best results, clean the surface of the substrate to be adhered to with a suitable solvent.

Mixing

Thoroughly stir both A and B components prior to mixing together. Use of mixing equipment is recommended for this grade.

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 10:1 mix ratio by weight. Also use a mixing system that will properly mix A and B components. Once mixed properly the material will have a pot life of approximately 10 minutes.

Storage and Shelf Life

QSil 431 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 are provided as a reference only and are not intended as sales specifications. For sales and technical assistance or for product recommendations, please call 1-866-303-LEAP