



## Technical Data Sheet

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### QSi 222

*Quantum Silicones' Transparent Liquid Silicone Rubber*

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#### **Product Description**

QSi 222 is a 2 part, clear liquid silicone which will cure at elevated temperatures. This product is supplied in matched kits in a 10 to 1 ratio of A to B.

#### **Key Performance Properties**

- Convenient 10:1 mixing ratio for use in automatic dispensing equipment or hand mixing
- Low viscosity which allows for ease of flow around complex parts, providing electrical insulation and shock resistance
- Contains no solvents
- Non-yellowing catalyst system
- The chemical composition provides hydrolytic stability and reversion resistance
- Primerless adhesion to most substrates

#### **Uncured Properties**

	<b><u>QSi 222A</u></b>	<b><u>QSi 222B</u></b>
Color	Clear	Clear
Viscosity, cps	2,390	282
Specific Gravity	1.02	1.00

#### **Uncured Properties with curing agent added**

Color	Clear, colorless
Consistency	Easily pourable
Work Time	>24 hours

#### **Cured Properties (cured 1 hour @ 150°C/302°F)**

Hardness, Shore A	40
Tensile Strength, psi	332
Elongation, %	128
Shrinkage	~0.1

## **Cure Schedule**

Temperature, C	Time
150C	60 minutes
100C	120 minutes

## **Electrical Properties**

Dielectric Strength, v/mil	500
Dielectric Constant @ 1000Hz	2.69
Dissipation Factor @ 1000Hz	0.0006
Volume resistivity, ohm-cm	$1.7 \times 10^{15}$

## **Thermal Properties**

Useful Temperature Range	-60 to 200C
Thermal Conductivity, Wm-K	0.18
Coefficient of Expansion	$27.5 \times 10^{-5}$
Specific Heat, cal/gm, C	0.3

All data is typical data and should not be used for specifications. Please contact a technical representative of Quantum Silicones for assistance.

## **Instructions for Use**

### **Mixing**

Weigh 10 parts of A to 1 part of B. The mixing container should be 4 to 5 times larger than the volume of silicone. Using clean tools, thoroughly mix the A and B components. Air entrapped during mixing should be removed using vacuum equipment capable of achieving a vacuum of 29 inches of mercury.

### **Storage and Shelf Life**

QSil 222 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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