



# Technical Data Sheet

## QLE 1039

40 Shore A, Addition Cure Elastomer for Coating Applications

### PRODUCT DESCRIPTION

QLE 1039 is a 100% silicone solids elastomer designed for fabric or cloth coating applications. This two-component system offers a tough coating with excellent adhesion and fast cure.

### KEY FEATURES

- 100% solids
- Long open time
- Excellent adhesion
- Tough, resilient coating
- 1:1 mix ratio

### TYPICAL PROPERTIES

UNCATALYZED		
PROPERTY	QLE 1039 A	QLE 1039 B
Appearance	Translucent	Blue
Viscosity	31,000 cps	18,000 cps
Specific Gravity	1.02	1.02

CATALYZED	
MIX RATIO 1:1 by weight	
Gel time at 25°C*	> 24 hours

\* Gel time is defined as the time required for the material to become a solid or a semi-solid.

CURED PROPERTIES**	
60 minutes @ 150°C	
PROPERTY	RESULT
Durometer, Shore A	44
Tensile	800 psi
Elongation	180 %
Young's modulus	470 psi

\*\* For physical property testing, these materials have been cured in a closed mold at extended times to ensure full cure. When cured in an open environment, the cure time will be faster than in a closed mold, at the same temperatures. It is recommended that the material cure profile be optimized for the environment it will ultimately be used in.



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### **MIXING**

In order to achieve optimum performance the same lot number of QLE 1039 A and QLE 1039 B should be used.

#### **Mixing by hand:**

Catalyze QLE 1039 A with QLE 1039 B at a 1:1 ratio by weight using a clean plastic or metal container of approximately 3 times the volume of the material and mix by hand. Accurate weighing of all components, on a suitable scale, is essential for optimal product performance when mixing by hand. Mix until the material is uniform with no visible striations.

#### **Mixing and dispensing with automatic equipment:**

Use a mixing system that will properly mix the QLE 1039 A and QLE 1039 B at a 1:1 ratio by weight.

### **DE-AERATION**

Air trapped during mixing should be removed by vacuum at 29 inches of mercury. During the process, the material will expand and intermittent evacuation may be required.

Machine mixed material does not normally need to be de-aired.

### **STORAGE AND SHELF LIFE**

If QLE 1039 A and QLE 1039 B are stored in their original unopened containers, in an environment that does not exceed 38°C (100°F) then QSi will warranty the material for a period of 12 months from the date of shipment.



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### **DISCLAIMER**

The technical data listed is provided for reference only and is not intended as product specifications. QSi has the capability to customize products as requested. For sales and technical assistance please contact customer service at **(804) 271-9010** or **1-800-852-3147**.

This material is intended for industrial use only.

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### **Quantum Silicones Headquarters**

*7820 Whitepine Road  
Richmond, VA 23237*

### **Manufacturing, Research and Development Facility**

*8021 Reygan Road  
Richmond, VA 23237*

**Phone: 804-271-9010**

**Fax: 804-271-9055**

**Toll Free: 800-852-3147**