



Technical Data Sheet

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QSi 555

55 Shore A Durometer Silicone Potting Material

PRODUCT DESCRIPTION

QSi 555 is a 100% silicone semi-thixotropic compound designed for potting and encapsulation applications.

KEY FEATURES

- 100% solids - no solvents
- Long pot life
- Semi-thixotropic
- Must be heat cured

TYPICAL PROPERTIES

UNCATALYZED		
PROPERTY	QSi 555A	QSi 555B
Appearance	White	Clear
Viscosity	80,000 cps	3,000 cps
Specific Gravity	1.48	0.97

CATALYZED	
MIX RATIO 10:1	
Gel time*	> 72 hours

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

HEAT CURED PROPERTIES	
17 minutes at 150C	
PROPERTY	RESULT
Durometer, Shore A	50
Tensile	450 psi
Elongation	100%
Useful temperature range	-55 – 204C

ELECTRICAL PROPERTIES	
PROPERTY	RESULT
Dielectric constant @ 1000 Hz	3.27
Dissipation Factor	0.009
Volume resistivity	5.51×10^{15} Ohm-cm



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MIXING

In order to achieve optimum performance the same lot number of QSi 555A and QSi 555B should be used.

QSi 555A and QSi 555B should be thoroughly mixed prior to catalyzation.

Mixing by hand

Catalyze QSi 555A with QSi 555B at a 10:1 ratio by weight using a clean plastic or metal container of approximately 3 times the volume of the material and mix by hand. When hand mixing; accurate weighing of components on a suitable scale is essential for optimal product performance.

Mixing and dispensing with automatic equipment

Use a mixing system that will properly mix the QSi 555A and QSi 555B at a 10:1 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 QSi 555A and QSi 555B are stored in their original unopened containers, in an environment that does not exceed 38C (100F) then QSi will warranty the material for a period of 12 months from the date of shipment.

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.

Visit our website at www.quantumsilicones.com.