



Technical Data Sheet

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QSi 244

45 Shore A Thermally Conductive Industrial Silicone Elastomer

PRODUCT DESCRIPTION

QSi 244 is a 100% silicone solids elastomer designed for industrial applications where good thermal conductivity is required. These applications include rollers, electronic potting applications, thermal interface materials (TIM) and thermally conductive coatings. This two component system offers a hard, thermally conductive, low modulus material that is readily repairable.

KEY FEATURES

- 100% solids, no solvents
- Excellent thermal conductivity

TYPICAL PROPERTIES

UNCATALYZED		
TEST	A	B
Appearance	Brown	Brown
Viscosity	140,000 cps	140,000 cps
Specific Gravity	2.20	2.20

CATALYZED	
MIX RATIO 1:1 by weight	
TEST	RESULT
Gel Time*	> 24 hours

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

CURED PROPERTIES	
30 Minutes at 150C	
TEST	RESULT
Durometer	45
Tensile	225 psi
Elongation	75%

ADDITIONAL PROPERTIES	
Thermal conductivity	~0.84 W/mK
Flammability	Excellent properties consistent with UL94 V-0/V-1 rating depending on thickness. This material is not currently UL listed.
Useful temperature range	-55 – 204C



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MIXING

QSi 244A and QSi 244B should be thoroughly mixed prior to catalyzation.

MIXING BY HAND

Combine equal parts of QSi 244A and QSi 244B by weight and stir until a uniform consistency is observed. Use care when mixing to minimize air entrapment.

MIXING with DISPENSING or AUTOMATIC EQUIPMENT

Use equipment suitable for a 1:1 mix ratio that will completely mix QSi 244A and QSi 244B to uniform consistency.

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. Typically after releasing the vacuum 2-3 times the mass will collapse on itself at which time the vacuum should be left on for an additional 2-4 minutes.

STORAGE AND SHELF LIFE

If QSi 244A and QSi 244B 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.