



# Technical Data Sheet

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## QM 226

### 26 Shore A Addition Cure Moldmaking Material

#### PRODUCT DESCRIPTION

QM 226 is a two component, room temperature addition cure silicone material. The cured rubber has excellent mechanical properties and good shelf-life stability. This material is a good choice for moldmaking of intricate patterns, skin molding and applications where a low durometer material is required.

#### KEY FEATURES

- Low viscosity
- Fast demold time
- Excellent physical properties
- Excellent flexibility
- Excellent library life

#### MAIN APPLICATIONS

- Special effects
- Applications where low modulus is required

#### TYPICAL PROPERTIES

UNCATALYZED		
TEST	QM 226A	QM 226B
Appearance	Translucent	Red
Viscosity	20,000 cps	8,000 cps
Specific Gravity	1.12	0.98

CATALYZED	
MIX RATIO 10:1 by weight	
PROPERTY	RESULT
Catalyzed color	Red
Catalyzed viscosity	17,000 cps
Work life*	30 minutes
Demold time	6 – 8 hours

\*Work life is defined as the time required for the material to double in catalyzed viscosity.



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CURED PROPERTIES	
PROPERTY	RESULT
Durometer, Shore A	26
Tensile	>650 psi
Elongation	>650 %
Tear B	>90 ppi
Linear Shrinkage	< 0.1%
Useful temperature range	-60C – 204C

### CURE CHARACTERISTICS

QM 226A is catalyzed with QM 226B at a 10:1 ratio (base:catalyst) by weight. In order to achieve optimum performance the same lot number of QM 226A and QM 226 B should be used.

The curing process begins as soon as the catalyst is mixed with the base. The material will cure as described in the data above under normal temperature (25C) and humidity conditions (50% RH). Because this system is sensitive to heat and humidity, a change in cure speed may be observed if one or both of these variables are altered. A large difference in temperature (+/- 5C) or humidity (> 60-70%) may alter the cure profile of the material. In addition, if the product is to be used with aggressive resins such as high styrene polyester resins, it is recommended that the rubber be allowed to cure for 48 hours.

### MIXING

QSi recommends that the catalyzed material be tested on a small area of the mold prior to use.

QM 226A and QM 226B should be thoroughly mixed prior to catalyzation.

Combine ten parts of QM 226A with one part of QM 226B by weight into a clean, compatible container and mix by hand or with mixing equipment until a uniform consistency is observed. When hand mixing; accurate weighing of components on a suitable scale is essential for optimal product performance. The material should have a uniform color with no visible striations.

### 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.

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



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### STORAGE AND SHELF LIFE

If QM 226A and QM 226B are stored in an environment that does not exceed 90F then QSi will warranty the material for a period of one year 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](http://www.quantumsilicones.com).*