



# Technical Data Sheet

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## QM 262

### 60 Shore A Addition Cure Moldmaking Material

#### PRODUCT DESCRIPTION

QM 262 is a two component, room temperature addition cure silicone material. The cured rubber has excellent mechanical properties, good shelf-life stability, excellent physical properties and resin resistance. This material is a good choice for the molding of furniture, picture frames and architectural materials. QM 262 is exceptionally good where high durometer and dimensional stability are required.

#### KEY FEATURES

- High Durometer
- Low Viscosity
- Casting resin resistance
- Fast demold time
- Excellent dimensional stability

#### MAIN APPLICATIONS

- Molds for architectural replication
- Molds for polyester, epoxy resin casting, and rigid or foam polyurethane
- Molds for technical articles and prototypes
- Molds for furniture and picture frame replication

#### TYPICAL PROPERTIES

UNCATALYZED		
TEST	QM 262A	QM 262B
Appearance	Beige	Blue
Viscosity	45,000 cps	2,000 cps
Specific Gravity	1.26 g/cm <sup>3</sup>	1.02 g/cm <sup>3</sup>

CATALYZED	
MIX RATIO 10:1 by weight	
PROPERTY	QM 262B
Catalyzed color	Light Blue
Catalyzed viscosity	35,000 cps
Work life*	60 minutes
Demold time	8 – 12 hours

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



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CURED PROPERTIES	
3 days at 25C	
PROPERTY	RESULT
Durometer, Shore A	60
Tensile	1000 psi
Elongation	140%
Tear	90 ppi
Linear Shrinkage	< 0.1%
Useful temperature range	-60 – 204C

### CURE CHARACTERISTICS

QM 262A is catalyzed with QM 262B at a 10:1 ratio (base:catalyst) by weight. In order to achieve optimum performance the same lot number of QM 262A and QM 262B 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.

### MIXING

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

QM 262A and QM 262B should be thoroughly mixed prior to catalyzation.

Combine ten parts of QM 262A with one part of QM 262B 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 262A and QM 262B 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**.

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