



# GT 5688 Fast Clear Silicone RTV MoldMaking Rubber

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## DESCRIPTION

GT Products 5688 is a translucent, pourable, two-component silicone rubber compound designed for making flexible molds.

GT Products 5688 has a low durometer, and is easily stretched off of parts. GT Products 5688 is recommended for repetitive production of intricate shapes cast in epoxy or urethane resins. It is also used for potting electronic components protecting sensitive assemblies against thermal shock and vibration, and as an optical coupling adhesive.

## MIXING

GT Products 5688 base is mixed with catalyst 5688 in a 10 : 1 ratio by weight. Add the catalyst into the base to assure complete dispersion. Mixing may be done by hand with a spatula or by machine however, GT-5688 was designed to be used with a dispensing machine. Due to the short gel time it is not recommended that you mix by hand. When machine mixing avoid prolonged high speeds to prevent premature cure. Avoid stirring in an excessive amount of air. Care must be taken to avoid contaminating unused base with the mixed material or with mixing tools that have been in contact with the catalyst.

## TYPICAL PROPERTIES

	<u>Base</u>	<u>Catalyst</u>
Color	translucent	clear
Specific Gravity	1.11	1.00
Viscosity (cPs))	104,000	1000
Mixed Viscosity	53,000	
Pot Life (pour time)	12-15 min..	

### Physical:

After cure (72 hr @ 25°C)

Tensile, psi:	850
Elongation, %	400
Durometer, Shore A	35
Tear, Die B, ppi	120
Linear Shrinkage, %	0.1

## **DEGASSING**

If material is mixed by hand or machine, air will be introduced into the material. Air entrapped during mixing should be removed to prevent voids in the cured product. Deair the mixed material under a vacuum of 25 mm (29 inches) of mercury. The mixture will expand to about four times its volume, crest and recede to about the original level as the bubbles break. Degassing is usually complete about two minutes after frothing subsides.

## **CURING**

GT Products 5688 will cure sufficiently in 3 to 4 hours at room temperature (75°F) to be handled. Any elevation in temperature will shorten the cure time..

## **STORAGE and HANDLING**

GT Products 5688 will remain useful for six months when stored in the original unopened containers at temperatures below 80°F (27°C).

## **COMPATIBILITY**

GT Products 5688 is an addition (platinum catalyst) cure system. It will cure in contact with most clean dry surfaces. Certain materials such as butyl and chlorinated rubbers, sulfur containing materials, amines and condensation (metal soap catalyst) RTV silicones can cause cure inhibition. This inhibition will manifest itself as a sticky interface with the substrate. Inhibition can often be minimized by warming the substrate to evaporate contaminants, neutralizing and rinsing, or by the use of a suitable barrier. A sample patch test is recommended.

## **NOTE**

*The above data is based on typical experience and should not be used for specification writing. Suitability of GT-Products 5688 for a specific application should be determined under actual use conditions. No warranty, expressed or implied, is hereby made*

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