



# Hysol MG57F-0660

Nov. 2018

## PRODUCT DESCRIPTION

Hysol MG57F-0660 is an environmentally friendly “green” (no bromine/antimony or phosphorous) molding compound. It has been designed especially for use in high volume molding of tantalum capacitors. It offers excellent moldability with faster cycle times than most traditional epoxy based encapsulants and is especially recommended for automold applications. MG57F-0660 also offers excellent contrast with currently available laser marking equipment.

## TYPICAL UNCURED PROPERTIES

Color	Gold
Spiral Flow, @ 150°C, inches as produced	30
Hot Plate Gel Time, @ 160°C, seconds	14
Shelf Life @ 10°C, months from date of manufacture	2
Flash, mm	3 mil channel 93
	2 mil channel 3
	1 mil channel 1
	0.5 mil channel 1
	0.25 mil channel 1

## TYPICAL CURED PROPERTIES

Glass Transition Temperature, °C	168
Coefficient of Thermal Expansion, ppm/°C	
80° - 100°C	21
220° - 240°C	70
Specific Gravity	1.82
UL94V0, inches	0.25
Flexural Strength, psi	20,800
Flexural Modulus, psi, x 10 <sup>6</sup>	2.1

## TYPICAL ELECTRICAL PROPERTIES

Dielectric Strength, volts/mil	11,000
Dielectric Constant	
1,000 Hz	4.2
100,000 Hz	4.0
Dissipation Factor	
1,000 Hz	0.011
100,000 Hz	0.014
Volume Resistivity @ 500 volts, ohm/cm x 10 <sup>16</sup>	3.5
Surface Resistivity @ 500 volts, ohm/cm x 10 <sup>16</sup>	9.1
Arc Resistance, seconds	185
Moisture absorption, 96 hrs @ 85°C/85 RH, %	0.42

## HANDLING

Although molding and curing conditions will vary from situation to situation, recommended starting ranges are shown below.

Molding Temperature, °C	145-177
Molding Pressure, psi	500-1500

Curing Time, 1/8" section,	
@ 170°C, seconds	20 - 35
@ 150°C, seconds	30 - 60
Post Cure Time, hours @ 150°C	2

## GENERAL INFORMATION

**For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).**

## STORAGE

Powder Storage – Powder or performs should be stored at 10°C or below, in closed containers. After removal from cold storage, the material MUST be allowed to come to room temperature, in the sealed container, to avoid moisture contamination. The suggested waiting time for a standard 22 Kg pail is 24 hours.

## DATA RANGES

The data contained herein may be reported as a typical value and/or range values based on actual test data and are verified on a periodic basis.

## Note

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Hysol Huawei is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

## TRADEMARK USAGE

Except as otherwise noted, all trademarks in this document are trademarks of Hysol Huawei in P.R.C and elsewhere.

NOT FOR PRODUCT SPECIFICATIONS  
THE TECHNICAL DATA CONTAINED HEREIN ARE INTENDED AS REFERENCE ONLY.  
PLEASE CONTACT HYSOL HUAWEI QUALITY DEPARTMENT FOR ASSISTANCE AND RECOMMENDATIONS ON SPECIFICATIONS FOR THIS PRODUCT.

Hysol Huawei Electronics Co., Ltd.

Songtiao Industrial Park, Lianyungang, Jiangsu 222006, China.