

HYSOL MG 36F-25A

July 2107

PRODUCT DESCRIPTION

HYSOL MG 36F-25A provides the following product characteristics:

Technology	Ероху	
Appearance	Black	
Cure	Heat cure	
Product Benefits	Good reliability	
	Low cost	
Typical Package	Discrete semiconductor devices and Low	
Application	pin count PDIP	
Application	Molding compound	
Flammability	UL94 V0	

HYSOL MG 36F-25A epoxy based molding compound designed for the encapsulation of discrete semiconductor devices. It can be applied using both conventional and automold equipments.

HYSOL MG 36F-25A meets UL 94 V0 flammability rating at 3mm thickness.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Hot plate Gel Time @ 177°C, seconds:	
Conventional mold	30
Automold	22
Spiral Flow, @ 177°C, cm:	
Conventional mold	76
Automold	71
Shelf Life @ 5°C, days	365

TYPICAL PROCESS DATA

Handling

80 to 90
0 to 4
80 to 90
0 to 4
175 to 200
42 to 85
12 to 20
4 to 8
60 to 90
45 to 75
30 to 45
25 to 40
2 to 6

HYSOL MG 36F-25A has been formulated to provide the best possible moldability and as wide a molding latitude as possible. Although molding and curing conditions will vary from situation to situation, recommended starting ranges are shown above.

TYPICAL PROPERTIES OF CURED MATERIAL

All measurements taken at 21 °C unless otherwise noted. All physical, electrical and analytical measurements taken on specimens cured for 2 minutes @ 177 °C with post cure of 2 hours at 177 °C, unless other wise specified.

Physical Properties

Coefficient of Thermal Expansion , ppm/°C:		
@ 50 to 100°C	19	
@ 220 to 240°C	65	
Glass Transition Temperature, °C	170	
Specific Gravity	1.82	
Molded shrinkage, as molded, %	0.4	
Flexural Strength, Kg/mm ²	14.1	
Flexural Modulus, Kg/mm ²	1,691	
Thermal Conductivity, W/(m-K)	0.75	
Extractable Ionic Content, ppm:		
Chloride (Cl-)	5	
Sodium (Na+)	5	
Moisture Absorption , @ 1 Atm steam, %:		
@ 100 hours	0.75	
@ 1,000 hours	0.85	
Water Extract Data, 20 hour water boil:		
Conductivity, µmhos/cm	60	
pH of extract	38	

Electrical Properties

Volume Resistivity@ 500 Volts, ohms-cm:	
@ 21 °C	1×10^{16}
@ 100 °C	5×10 ¹⁶
@ 100 hours @ 1 Atm	3×10 ¹⁵

GENERAL INFORMATION

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

Not for product specifications

The technical data contained herein are intended as reference only. Please contact Hysol Huawei Electronics Co., Ltd. quality department for assistance and recommendations on specifications for this product.

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Powder Storage - Powder or preforms 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.

Material removed from containers may be contaminated during use. Do not return product to the original container. Hysol Huawei Electronics Co., Ltd. cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact Hysol Huawei Electronics Co., Ltd. Technical Service Center or Customer Service Representative.

Disclaimer

NOTE

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our best knowledge and experience of the product as at the date of this TDS. Hysol Huawei Electronics Co., Ltd. is, 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 regarding the concerned product is excluded.