

**HYSOL GR2310V**

2089026

Sep. 2018

**PRODUCT DESCRIPTION**

HYSOL GR2310V provides the following product characteristics:

Technology	Epoxy
Appearance	Golden
Cure	Heat Cure
Product Benefits	Optimum performance Low moisture absorption High Moldability Fast cycle time Laser mark capability Low ionic impurities Excellent thermal cycling
Filler Weight, %	72
Typical Package Application	Tantalum Capacitor and leaded or surface-mounted sensors
Application	Molding compound
Flammability	94 V-0

HYSOL GR2310V epoxy molding compound delivers outstanding performance and ease of use.

HYSOL GR2310V meets UL 94 V-0 flammability at 6.35mm thickness.

**TYPICAL PROPERTIES OF UNCURED MATERIAL**

Property	Method & Units	Typical Value
Gel time	@175°C,S	28
Spiral flow	@175°C, inch/cm	45/114
Shelf life	@5°C, days	365

**TYPICAL PROCESS DATA**

Handling	Typical Value
Preheat Temperature, °C	80 to 95
Molding Temperature, °C	140 to 180
Transfer Pressure, Kgf/cm <sup>2</sup>	40 to 85
Transfer Time, seconds	6 to 15
Curing Time,3 mm section: @ 175°C, seconds	50 to 90

**GR2310V** 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 25°C unless otherwise noted. All physical, electrical and analytical measurements taken on specimens cured for 2 minutes @ 175°C with post cure of 6 hours @175 °C, unless otherwise specified.

**Physical Properties**

Property	Method	Typical Value
Coefficient of Linear Thermal Expansion , ppm/°C	Below Tg,	18
	Above Tg,	70
Glass Transition Temperature, °C		180
Specific Gravity		1.85
Mold shrinkage		0.3
Flexural strength, MPa	@ RT	110
Flexural modulus, MPa	@ RT	11500
Thermal conductivity	W/(M·K)	0.7
Water Extract Data, 20hours water boil:		
Conductivity,	µmos/cm	40
PH of extract		5.5
Extractable Ionic Content Chloride(Cl-)	ppm	<20
		Sodium(Na+)
Volume resistance, ohms-cm	@ 25°C, 500 volts	10*10 <sup>15</sup>

**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 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.

Optimal Storage: 5°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 15 kg carton box is 24 hours.

Material removed from containers may be contaminated during use. Do not return product to the original container. Hysol Huawei 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 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 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.

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