

Technical Data Sheet

MG33F-0602

September 2018

PRODUCT DESCRIPTION

Hysol MG33F-0602 is an advanced epoxy molding compound designed to meet the encapsulation requirements of automotive modules. It is designed to have excellent flow characteristics ideal for the encapsulation of complex module assemblies while providing enhanced high temperature reliability characteristics. MG33F-0602 offers an optimized balance of moisture resistance and good electrical characteristics suitable for a wide range of automotive module application.

PROPERTIES OF UNCURED MATERIAL

Black
72
125
20
85
6
1.0
2.0
2.0

TYPICAL CURED PROPERTIES

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

Glass Transition Temperature, °C	160
Coefficient of Thermal Expansion, cm/cm/°C 50-100°C, x 10-6	20
	20
220-240°C, x 10 ⁻⁶	66
Specific gravity	1.80
Flexural Strength, kgf/mm ² (25°C)	13.0
Flexural Modulus, kgf/mm ² (25°C)	1480
Molded Shrinkage, as molded, %	0.28
Thermal Conductivity, W/m.K	8.0
Water Absorption,	
(85°C/85% RH for 168 hrs) 168 hours, %	0.29
UL94 Flammability @ 1/8"	V-0

HANDLING

MG33F-0602 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 below.

Preheat Temperature, °C	80-90
Molding Temperature, °C	170-190
Transfer Pressure, Kgf/cm ²	40-80
Transfer Time, sec.	5-10
In-mold cure Time, sec.	60-90
PMC Temperature, °C	175
PMC Time,@175 °C, hrs.	8-12

GENERAL INFORMATION

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

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or their strong oxidizing materials.

STORAGE

Powder Storage – Powder or performs should be stored at 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.

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

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.

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