

PRODUCT DESCRIPTION

MG 15F-0140B provides the following characteristics:

Technology	Ероху
Appearance	Black
Cure	Heat cure
Product Benefits	 High voltage performance
	Good electrical stability
Typical Package	Power discrete and High voltage rectifier
Application	
Application	Molding compound
Flammability	UL94 V0

MG 15F-0140B is an anhydride cured molding compound designed specifically for use in high voltage power applications requiring good electrical stability at high temperature.

MG 15F-0140B meets UL 94 V-0 Flammability at 3 mm thickness.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Gel Time @ 175 °C, seconds	18
Spiral Flow, @ 175°C, inch/cm	22/56
Shelf Life @ 5°C, days	365

TYPICAL PROCESS DATA

Handling	Value
Preheat Temperature,Conventional mold, °C	77 to 94
Molding Temperature, °C	177 to 200
Molding Pressure, kgf/cm2	42 to 84
Transfer Time, seconds	6 to 15
Curing Time, 3 mm section:	
@ 177°C, seconds	60 to 75
@ 190°C, seconds	45 to 60
Post Cure Time, hours:	
@ 175°C	8 to 12
@ 190°C	2 to 4

MG 15F-0140B 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.

HYSOL MG 15F-0140B

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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 @190°C with post cure of 2 hours at 190°C, unless other wise specified.

Physical Properties

Coefficient of Thermal Expansion, ppm/°C:	Typical Value
@ Below Tg	22
@ Above Tg	57
Glass Transition Temperature, °C (TMA)	185
Specific Gravity	1.81
Molded shrinkage, %	0.34
Flexural Strength, MPa	115
Flexural Modulus, MPa	10300
Extractable Ionic Content, ppm:	
Chloride (Cl-)	9.9
Sodium (Na+)	5.0
Electrical Properties	

Volume Resistivity@ 500 Volts, ohms-cm:	
@ 21 °C	4.3×10 ¹⁶

GENERAL INFORMATION

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

Not for product specifications

The laboratory 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.

Powder Storage - Powder or preforms 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.

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

This product is a developmental product. It is not now, and may not be in the future, commercially available. The properties of the uncured material and the physical properties of the cured material have been established as a point of reference only. The information provided in this Lab Data Sheet (LDS) 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 LDS. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide.

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