Technical Data Sheet

LOCTITE HYSOL KL-G 200S

July 2013

PRODUCT DESCRIPTION

LOCTITE HYSOL KL-G 200S provides the following product characteristics:

Technology	Epoxy
Appearance	Black
Cure	Heat cure
Product Benefits	• Green product • High moldability
Filler Size, µm	75
Filler Weight, %	77
Typical Package Application	SMX
Application	Molding compound
Flammability Rating	UL 94 V0 @ 6.35 mm thickness
Surface Finish	Ag, Ni and Cu

LOCTITE HYSOL KL-G 200S epoxy molding compound contains no bromine, antimony or phosphorus flame retardant. This material is designed to achieve JEDEC Level 1 requirements, at 260°C reflow temperature. LOCTITE HYSOL KL-G 200S provides the lowest cost of ownership with superior moldability and reliability.

LOCTITE HYSOL KL-G 200S meets UL 94 V-0 Flammability at 6.35mm thickness.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Gel Time @ 175 °C, seconds	20
Spiral Flow, @ 175°C, cm	80
Shelf Life @ 5ºC , days	365
Hot Hardness, Shore-D @ 175°C, 90 seconds	88

TYPICAL PROCESS DATA

Handling

Preheat Temperature:	
Conventional mold, °C	80 to 100
Automold, seconds	0 to 5
Molding Temperature, °C	150 to 195
Molding Pressure, Kg/cm²	40 to 100
Transfer Time:	
Conventional mold, seconds	10 to 20
Automold, seconds	4 to 10
Curing Time, @ 175ºC, seconds:	
Conventional mold,	40 to 90
Automold,	20 to 60
Post Cure Time, hours	4 to 6

LOCTITE HYSOL KL-G 200S 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 at 175 °C, unless otherwise specified.

Physical Properties

Glass Transition Temperature, °C	175
Coefficient of Thermal Expansion , ppm/°C:	
Below Tg	20
Above Tg	70
Molded shrinkage, as molded, %	0.26
Flexural Strength, Kgf/mm² :	
@ 25 °C	14
Specific Gravity	1.95
Thermal Conductivity , W/(m-K)	1.4
Flexural Modulus, Kgf/mm² :	
@ 25 °C	1,500
Moisture Absorption , PCT 24 hrs, %	0.5
Extractable Ionic Content, ppm:	
Chloride (Cl-)	8
Sodium (Na+)	3
Water Extract Data, 20 hrs water boil:	
Conductivity, µmhos/cm	20
pH of extract	5.0

Electrical Properties

Volume Resistivity, ohms-cm, 250 volts:	
@ 25ºC	18×10^{15}

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 other strong oxidizing materials.

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local 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.

Mold Compound materials should be stored at 5ºC 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. Henkel Corporation 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 your local Technical Service Center or Customer Service Representative.

Conversions
(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm² x 145 = psi
MPa x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

Disclaimer
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Reference N/A