Our strength is in our formulations

TECHNICAL BULLETIN: CLR 1190 / CLH 5166

PRODUCT DESCRIPTION:
A TWO COMPONENT, HEAT CURED, LONG POT LIFE, EPOXY IMPREGNATING COMPOUND. THIS PRODUCT WAS SPECIFICALLY DEVELOPED FOR COILS AND TRANSFORMERS.

SALES SPECIFICATIONS:

CLR 1190          CLH 5166
COLOR            AMBER            AMBER
VISCOSITY (NOTE 1, NOTE 4) 14,000 - 20,000 cps       30 - 60 cps
SPECIFIC GRAVITY        1.14 - 1.18 gm/cm³       1.20 ± 0.02 gm/cm³
SHELF LIFE            12 MONTHS         12 MONTHS

HANDLING:
MIX RATIO BY WEIGHT (A:B) (NOTE 2) 100:80.0
MIXED VISCOSITY (NOTE 4) 650 cps @ 22 ºC
POT LIFE OF 200 gm. mass (NOTE 4) 4 Days. @ 22 ºC
GEL TIME OF 200 gm. mass (NOTE 4) 2.0 Hrs. @ 100 ºC

CURE SCHEDULE (NOTE 3):
RECOMMENDED CURE SCHEDULE: 8 Hrs. @ 100 ºC
ALTERNATE CURE SCHEDULE: 4 Hrs. @ 125 ºC
OPTIONAL POSTCURE 2 Hrs. @ 150 ºC

CURED PROPERTIES: (NOT INTENDED FOR PREPARATION OF SPECIFICATIONS)
COLOUR            AMBER
DENSITY (gm/cm³)      1.18
SHORE HARDNESS        85D
GUIDE TO OPERATING TEMPERATURE (ºC) (Note 6) 180
LINEAR SHRINKAGE (in/in) (ASTM D 2566) 0.0100
TENSILE STRENGTH (psi) (ASTM D 638) 10,500
TENSILE ELONGATION (%) (ASTM D 638) 4.0
MOISTURE ABSORPTION (%) 0.200

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ELECTRICAL PROPERTIES:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIELECTRIC CONSTANT @1 KHz</td>
<td>3.30</td>
</tr>
<tr>
<td>DISSIPATION FACTOR @1 KHz</td>
<td>0.0035</td>
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<tr>
<td>DIELECTRIC STRENGTH 10 Mil/Section</td>
<td>1,000 Volts/Mil</td>
</tr>
<tr>
<td>ARC RESISTANCE</td>
<td>120 Seconds</td>
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<tr>
<td>VOLUME RESISTIVITY</td>
<td>$21 \times 10^{14}$ Ohm/Cm</td>
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</tbody>
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NOTES

Note1 If a filled resin, setting may occur during transportation or storage. Fillers must be remixed before use.

Note2 Mix ratio must be within ± 2% of the stated amount and thorough mixing is required to avoid degraded final properties.

Note3 Other cure schedules may give satisfactory results, however, these should be determined by the customer for their given circumstances.

Note4 All measurements taken at 22°C unless otherwise specified.

Note5 These products may trigger allergic responses in some individuals. Prevent contact with skin, wash with plenty of soap and water immediately if contact occurs. Do not breathe vapours, provide good ventilation and exercise good housekeeping at work area. Read the Material Safety Data Sheet and obser.

Note6 The “Guide to Operating Temperature” is based on our experience with materials of similar chemistry and/or thermal index. The ultimate suitability of this product for a given operating temperature is application dependent and may change according to the demands placed upon it in operation.

Note7 If indicated, the values under “Electrical Characteristics” may be based on supplier data for products with similar compositions. They are provided only as a guide and the recipient must test each material to determine its suitability for the intended application.

IMPORTANT

THE INFORMATION IN THIS BULLETIN IS BASED ON DATA OBTAINED BY OUR OWN RESEARCH AND IS CONSIDERED ACCURATE. ALL INFORMATION SUPPLIED BY CROSSLINK TECHNOLOGY INC., IS FURNISHED UPON THE EXPRESS CONDITION THAT THE PERSON RECEIVING THE PRODUCT SHALL MAKE THEIR OWN ASSESSMENTS TO DETERMINE ITS SUITABILITY FOR THEIR PARTICULAR PURPOSE. NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING SUCH INFORMATION, OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF; THAT ANY PRODUCT SHALL BE MERCHANTABILITY OR FIT FOR ANY PARTICULAR PURPOSE; OR THAT THE USE OF SUCH OTHER INFORMATION OR PRODUCT WILL NOT INFRINGE ANY PATENT.

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