

## 3M Scotchcast™ 4 Electrical Insulating Resin

Category : Other Engineering Material

### Material Notes:

3M Scotchcast Electrical Insulating Resin 4 is a two-part, epoxy insulating and encapsulating resin. This resin, mixed in its unique two-part bag, generates its own heat to cure. Its compatibility with solid and synthetic cable insulations and jackets makes Resin 4 an excellent insulator and sealer for cable splicing. Use Resin 4 to splice solid dielectric and oil-filled cables up to 8 kV and to jacket high voltage power cables. It is used in 3M Splice Kit Series 82 and 90-B1. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Scotchcast-4-Electrical-Insulating-Resin.php](http://www.lookpolymers.com/polymer_3M-Scotchcast-4-Electrical-Insulating-Resin.php)

| Physical Properties | Metric    | English                   | Comments     |
|---------------------|-----------|---------------------------|--------------|
| Density             | 1.11 g/cc | 0.0401 lb/in <sup>3</sup> |              |
| Moisture Absorption | 2.60 %    | 2.60 %                    | 7 days at RT |

| Mechanical Properties     | Metric   | English  | Comments   |
|---------------------------|----------|----------|------------|
| Hardness, Shore D         | 84       | 84       | ASTM D2240 |
| Tensile Strength at Break | 33.8 MPa | 4900 psi | ASTM D412  |
| Elongation at Break       | 4.0 %    | 4.0 %    | ASTM D412  |

| Thermal Properties        | Metric  | English | Comments |
|---------------------------|---------|---------|----------|
| Glass Transition Temp, Tg | 54.0 °C | 129 °F  |          |

| Electrical Properties | Metric                                     | English                                    | Comments  |
|-----------------------|--|--|-----------|
| Dielectric Constant   | 3.1  | 3.1  | ASTM D150 |
|                       | @Frequency 60.0 Hz,<br>Temperature 23.0 °C | @Frequency 60.0 Hz,<br>Temperature 73.4 °F |           |
|                       | 3.9  | 3.9  |           |
|                       | @Frequency 60.0 Hz,<br>Temperature 60.0 °C | @Frequency 60.0 Hz,<br>Temperature 140 °F  | ASTM D150 |
|                       | 6.0  | 6.0  | ASTM D150 |
|                       | @Frequency 60.0 Hz,<br>Temperature 90.0 °C | @Frequency 60.0 Hz,<br>Temperature 194 °F  |           |
| Dielectric Strength   | 19.7 kV/mm                                 | 500 kV/in                                  | ASTM D149 |
| Dissipation Factor    | 0.50                                       | 0.50                                       | ASTM D150 |
|                       | @Frequency 60.0 Hz,<br>Temperature 23.0 °C | @Frequency 60.0 Hz,<br>Temperature 73.4 °F |           |

| Electrical Properties | Metric   | English  | Comments      |
|-----------------------|----------|----------|---------------|
| Processing Properties | Metric   | English  | Comments      |
| Gel Time              | 16.0 min | 16.0 min | ASTM D2471-99 |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Appearance             | Black |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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