

# 3M

## Scotchcast™

### No. 1471 Resin

#### Data Sheet



#### Product Description

Scotchcast™ No. 1471 Resin is an unfilled solvent free two component polyetherurethane resin for room temperature curing.

#### Features

- ❖ Good adhesion on metals and different plastics
- ❖ Short cure time
- ❖ Available with Closed Mix and Pour Delivery System

#### Process Figures

|                    |         |             |
|--------------------|---------|-------------|
| Mixing Proportion: | A : B   | 4 : 3       |
| Application Time:  | At 23°C | 10 minutes. |
| 100g               | At 35°C | 6 minutes.  |
| Cure Time:         | At 23°C | 10 hours.   |
|                    | At 60°C | 3 hours.    |

| Property                               | Value                  | Specification         |
|----------------------------------------|------------------------|-----------------------|
| <b>Part A</b>                          |                        |                       |
| Determination of Density (Hyd. Method) | 1.05g/cm <sup>3</sup>  | DIN 51757 / ISO 3675  |
| Viscosity 25°C                         | 1.0 Pas                | DIN 16945 / ISO 3104  |
| <b>Part B</b>                          |                        |                       |
| Determination of Density (Hyd. Method) | 1.15g/cm <sup>3</sup>  | DIN 51757 / ISO 3675  |
| Viscosity 25°C                         | 2.0 Pas                | DIN 16945 / ISO 3104  |
| <b>Part A &amp; B No. 1471</b>         |                        |                       |
| Density                                | 1.10 g/cm <sup>3</sup> | DIN 53479 / ISO 0061  |
| Viscosity 23°C                         | 1.8 Pas                | DIN 16945 / ISO 3104  |
| Gel-Time                               | 45-55 minutes.         | DIN 16945 procedure B |
| Terminal Conductivity                  | 0.24 W/K m             | DIN 516946            |
| Shore-D-Hardness                       | 40-50                  | DIN 53505 / ISO/R-868 |
| Tensile Strength                       | 9 N/mm <sup>2</sup>    | DIN 53455 / ISO/R527  |
| Elongation at Break                    | 110%                   | DIN 53455 / ISO/R527  |
| Electrolytic Corrosion                 | A 1.2                  | VDE 0303 / IEC 426    |
| Dielectric Strength                    | 22 kV/mm               | VDE 0303 / IEC 243    |
| Volume Resistivity                     |                        | VDE 0303 / IEC 93     |
| At 23°C                                | 1.0 E13 Ohm cm         |                       |
| At 50°C                                | 1.0 E11 Ohm cm         |                       |
| At 80°C                                | 1.0 E10 Ohm cm         |                       |
| At 23°C after 24h H <sub>2</sub> O     | 1.0 E11 Ohm cm         |                       |
| Dissipation Factor                     |                        | VDE 0303 / IEC 250    |
| At 23°C 50 Hz                          | 0.06                   |                       |
| At 50°C 50 Hz                          | 0.10                   |                       |
| At 80°C 50 Hz                          | 0.25                   |                       |
| Dielectric Constant                    |                        | VDE 0303 / IEC 250    |
| At 23°C 50 Hz                          | 5.2                    |                       |
| At 50°C 50 Hz                          | 8.2                    |                       |
| At 80°C 50 Hz                          | 8.5                    |                       |
| Track Resistant (low voltage)          | CTI 600                | DIN / IEC 112         |

#### Important Notice

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