

# FUDOWPREMIX® FP100F typeE

Thermoset Polyester

Fudow Co., Ltd.

## Message:

Examples of application

Switches, relays, sockets, coil bobbins, relays, terminal strips, connectors, power switches, compact breakers, plug pipes, ignition coil caps

Other properties:

Water proof

| General Information    |                            |
|------------------------|----------------------------|
| UL YellowCard          | E46770-237143              |
| Filler / Reinforcement | Glass fiber with embossing |
| Uses                   | Electrical components      |
|                        | Switch                     |
|                        | Connector                  |
| Processing Method      | Resin transfer molding     |
|                        | Compression molding        |
|                        | Injection molding          |

| Physical                       | Nominal Value     | Unit              | Test Method |
|--------------------------------|-------------------|-------------------|-------------|
| Density                        | 1.90 - 1.95       | g/cm <sup>3</sup> | JIS K6911   |
| Molding Shrinkage              | 0.60 - 1.0        | %                 | JIS K6911   |
| Water Absorption (23°C, 24 hr) | 0.020 - 0.050     | %                 | JIS K6911   |
| Water absorption rate-boiling  | 0.10 - 0.15       | %                 | JIS K6911   |
| Heat Deflection Temperature    | 200 - 250         | °C                | JIS K6911   |
| Insulation Resistance          |                   |                   | JIS K6911   |
| after boiling                  | 1.0E+13 - 1.0E+14 | ohms              | JIS K6911   |
| at ordinary state              | 1.0E+14 - 1.0E+15 | ohms              | JIS K6911   |
| Hardness                       | Nominal Value     | Unit              | Test Method |
| Rockwell Hardness (M-Scale)    | 92 - 97           |                   | JIS K6911   |
| Mechanical                     | Nominal Value     | Unit              | Test Method |
| Tensile Stress                 | 39.0 - 59.0       | MPa               | JIS K6911   |
| Flexural Modulus               | 12400 - 14400     | MPa               | JIS K6911   |
| Flexural Stress                | 98.0 - 127        | MPa               | JIS K6911   |
| Compressive Stress             | 127 - 176         | MPa               | JIS K6911   |
| Impact                         | Nominal Value     | Unit              | Test Method |
| Charpy Notched Impact Strength | 3.9 - 5.9         | kJ/m <sup>2</sup> | JIS K6911   |
| Electrical                     | Nominal Value     | Unit              | Test Method |
| Dielectric Strength            | 13 - 15           | kV/mm             | JIS K6911   |
| Dielectric Constant (1 MHz)    | 5.00 - 5.50       |                   | JIS K6911   |

|                            |               |      |             |
|----------------------------|---------------|------|-------------|
| Dissipation Factor (1 MHz) | 0.015 - 0.035 |      | JIS K6911   |
| Arc Resistance             | > 180         | sec  | JIS K6911   |
| Comparative Tracking Index | > 600         | V    | IEC 60112   |
| Flammability               | Nominal Value | Unit | Test Method |
| Flame Rating (0.79 mm)     | V-0           |      | UL 94       |

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