

FUDOWPREMIX® FP100F typeA

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:

Mechanical properties

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 - 1.94	g/cm ³	JIS K6911
Molding Shrinkage	0.70 - 0.90	%	JIS K6911
Water Absorption (23°C, 24 hr)	0.020 - 0.050	%	JIS K6911
Water absorption rate-boiling	0.15 - 0.25	%	JIS K6911
Heat Deflection Temperature	230 - 260	°C	JIS K6911
Insulation Resistance			JIS K6911
after boiling	1.0E+12 - 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)	95 - 100		JIS K6911
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	59.0 - 78.0	MPa	JIS K6911
Flexural Modulus	14000 - 16000	MPa	JIS K6911
Flexural Stress	127 - 147	MPa	JIS K6911
Compressive Stress	176 - 225	MPa	JIS K6911
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.5 - 7.5	kJ/m ²	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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