

FUDOWPREMIX® FP100F typeB

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:

Electrical properties

Fill properties

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

Physical	Nominal Value	Unit	Test Method
Density	1.88 - 1.92	g/cm ³	JIS K6911
Molding Shrinkage	0.60 - 1.0	%	JIS K6911
Water Absorption (23°C, 24 hr)	0.040 - 0.070	%	JIS K6911
Water absorption rate-boiling	0.15 - 0.35	%	JIS K6911
Heat Deflection Temperature	200 - 250	°C	JIS K6911
Insulation Resistance			JIS K6911
after boiling	1.0E+10 - 1.0E+12	ohms	JIS K6911
at ordinary state	1.0E+13 - 1.0E+14	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 ²	JIS K6911

Electrical	Nominal Value	Unit	Test Method
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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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