



# FUDOWPREMIX<sup>®</sup>

Material Designation			FP100F typeA	FP100F typeB	FP100F typeE	FP55	FP300F	
Containing Filler			Glass fiber	Glass fiber	Glass fiber	Glass fiber	Glass fiber	
Molding Method (Compression/Transfer/Injection)			T / I	T / I	T / I	T / I	C / I	
Characteristic	Non Red phosphorus		○	○	○	○	○	
	High strength		○				○	
	High insulation		○	○	○		○	
	Dimensional stability						○	
	Water resistance				○			
Others			Type: Normal/ High speed cure		High heat resistance			
Testing Head		Unit	Method				※1	
Dielectric Resistance		MV/m	JIS K 6911	13 - 15	13 - 15	13 - 15	10 - 12	13 - 15
Insulation Resistance	Ordinary state	Ω	JIS K 6911	10 <sup>13</sup> - 10 <sup>14</sup>	10 <sup>14</sup> - 10 <sup>15</sup>	10 <sup>14</sup> - 10 <sup>15</sup>	10 <sup>14</sup> - 10 <sup>15</sup>	10 <sup>13</sup> - 10 <sup>14</sup>
	After boiling	Ω	JIS K 6911	10 <sup>12</sup> - 10 <sup>14</sup>	10 <sup>10</sup> - 10 <sup>12</sup>	10 <sup>13</sup> - 10 <sup>14</sup>	10 <sup>13</sup> - 10 <sup>14</sup>	10 <sup>11</sup> - 10 <sup>12</sup>
Permittivity		-	JIS K 6911	5.0 - 5.5	5.0 - 5.5	5.0 - 5.5	6.0 - 7.0	5.4 - 5.6
Loss Tangent		-	JIS K 6911	0.015 - 0.035	0.015 - 0.035	0.015 - 0.035	0.090 - 0.150	0.035 - 0.040
Arc Resistance		s	JIS K 6911	180<	180<	180<	180<	180<
Tracking Resistance		CTI(V)	IEC 60112	600<	600<	600<	600<	600<
Flexural Strength		Mpa	JIS K 7171	127 - 147	98 - 127	98 - 127	110 - 130	98 - 137
Flexural Modulus		MPa	JIS K 7171	14000 - 16000	12400 - 14400	12400 - 14400	14000 - 16000	13700 - 15700
Charpy Impact Strength		kJ/m <sup>2</sup>	JIS K 7111	5.5 - 7.5	3.9 - 5.9	3.9 - 5.9	3.0 - 5.0	24 - 34
Tensile Strength		MPa	JIS K 6911	59 - 78	39 - 59	39 - 59	50 - 70	59 - 78
Compressive Strength		MPa	JIS K 6911	176 - 225	127 - 176	127 - 176	-	167 - 196
Rockwell Hardness		(HR·M)	JIS K 6911	95 - 100	92 - 97	92 - 97	-	95
Molding Shrinkage		%	JIS K 6911	0.70 - 0.90	0.60 - 1.00	0.60 - 1.00	0.50 - 0.90	0.30 - 0.50
Water Absorption		%	JIS K 6911	0.02 - 0.05	0.04 - 0.07	0.02 - 0.05	0.05 - 0.07	0.04 - 0.07
Specific Gravity		-	JIS K 7112	1.90 - 1.94	1.88 - 1.92	1.90 - 1.95	2.06 - 2.10	1.96 - 2.00
Appearance after Heating		°C	JIS K 6911	200 - 210	190 - 200	200 - 210	220 - 230	200
Heat deflection temperature		°C	JIS K 7191	230 - 260	200 - 250	200 - 250	260 - 280	200 - 210
Flammability ※2		-	UL 94	V-0	V-0	V-0	(V-1)	V-0
Use (e.g.)	Automotive components			○	○	○		
	Electronic components			○(Relay ,Switch, Bobbin,Connector ,Breaker,Socket)	○(Relay ,Switch, Bobbin,Connector ,Breaker,Socket)	○(Relay ,Switch, Bobbin,Connector ,Breaker,Socket)	○(For low pressure sealing)	○
	Measuring instrument parts			○	○	○		○
	Others			○	○	○	○	○

Data in this paper are catalog values(Typical value). It is not a guaranteed value.

In addition to the listed grades, some grades are available upon request.

※1. Data from compression molded specimens.

※2. The flame-retardant physical properties in parentheses are products that are not UL registered, but have physical The flame-retardant physical properties in parentheses are products that are not UL registered, but have physical properties equivalent to the marked level.

Contact Us



Fudow Company Limited Materials Department  
 2-15-16 Shin-Yokohama, Kohoku-ku, Yokohama-City, Kanagawa Pref. 222-0033  
 (5F, NMF Shin-Yokohama Bldg.)  
 TEL: +81-45-548-4213 FAX: +81-45-473-5218