



FORTRON General Properties(ISO)

Item	Unit	Test Method	Glass Fiber and Mineral reinforced
			6165A6
Color No.			Dimensionally precise, Standard HF2000/HD9100
ISO quality-of-the-material display:		ISO11469 (JIS K6999)	>PPS-(GF+MD)65<
Density	g/cm ³	ISO 1183	1.98
Water absorption (23°C, 24hrs)	%	ISO 62	0.01
Melt viscosity (310°C, 1000/sec)	Pa·s	ISO 11443	345
Tensile strength	MPa	ISO 527-1,2	130
Strain at break	%	ISO 527-1,2	1.1
Flexural strength	MPa	ISO 178	190
Flexural modulus	MPa	ISO 178	18,300
Charpy impact strength (notched)	kJ/m ²	ISO 179/1eA	4.5
Temperature of deflection under load (1.8MPa)	°C	ISO 75-1,2	270
Coefficient of linear thermal expansion (Normal temperature, Flow direction)	x10 ⁻⁵ /°C	ISO 11359-2	1
Coefficient of linear thermal expansion (Normal temperature, Transverse direction)	x10 ⁻⁵ /°C	ISO 11359-2	2
Thermal Conductivity	W/m·K	-	0.63
Dielectric breakdown strength (3mmt)	kV/mm	IEC 60243-1	14
Volume resistivity	Ω·cm	IEC 60093	8.0 x 10 ¹⁵
Dielectric constant (1kHz)		IEC 60250	5.8
Dielectric constant (1MHz)		IEC 60250	5.8
Dielectric dissipation factor (1kHz)		IEC 60250	0.002
Dielectric dissipation factor (1MHz)		IEC 60250	0.002
Tracking resistance (CTI)	V	IEC 60112	200
Flammability		UL94	V-0
The yellow card File No.			E109088
the Export Trade Control Order on the basis of the Foreign Exchange and Foreign Trade Law of Japan			Item 16 of Appendix -1

All figures in the table are the typical values of the material and not the minimum values of the material specifications. All data shown here are not always applicable to parts used under different conditions. We do not guarantee that these data are directly applicable to the application conditions of users and we ask each user to make his own decision on the application. For safe handling of materials we supply, it is advised to refer to the Material Safety Data Sheet "MSDS" of the proper material.

This brochure is edited based on reference literatures, information and data currently available to us. So the contents of this brochure are subject to change without notice due to new data.

※1) Nominal strain at break

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