

DURAFIDE® PPS General Properties(ISO)

Item	Unit	Test Method	Special
			1130TX2
Color No.			HD9100
ISO Marking Code		ISO11469 (JIS K6999)	>PPS-I-GF30<
Density	g/cm ³	ISO 1183	1.55
Water absorption (23°C,24hrs,1mmt)	%	ISO 62	-
Melt viscosity (310°C,1000/sec)	Pa·s	ISO 11443	310
Tensile strength	MPa	ISO 527-1,2	160
Strain at break	%	ISO 527-1,2	2.0
Flexural strength	MPa	ISO 178	230
Flexural modulus	MPa	ISO 178	10,000
Charpy notched impact strength (23°C)	kJ/m ²	ISO 179/1eA	11
Temperature of deflection under load (1.8MPa)	°C	ISO 75-1,2	253
Coefficient of linear thermal expansion (Normal temperature, Flow direction)	x10 ⁻⁵ /°C	Our standard	2
Coefficient of linear thermal expansion (Normal temperature, Transverse direction)	x10 ⁻⁵ /°C	Our standard	4
Electric strength (3mmt)	kV/mm	IEC 60243-1	15
Volume resistivity	Ω·cm	IEC 60093	1 x 10 ¹⁷
Volume resistivity (Our standard)	Ω·cm		-
Relative permittivity (1kHz)		IEC 60250	3.8
Relative permittivity (1MHz)		IEC 60250	3.8
Dielectric dissipation factor (1kHz)		IEC 60250	0.001
Dielectric dissipation factor (1MHz)		IEC 60250	0.002
Relative permittivity (2GHz)		Cavity resonator method	-
Dielectric dissipation factor (2GHz)		Cavity resonator method	-
Tracking resistance (CTI)	V	IEC 60112	150
Arc resistance	s	ASTM D495	123
Rockwell hardness	M(Scale)	ISO2039-2	-
Flammability		UL94	V-0
The yellow card File No.			E109088
Appropriate List number of Ministerial Ordinance for Export Trade Control			Item 16 of Appendix -1

Values in the table are the typical values of the material and not the minimum values of the material

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