PPS Properties

Parameter table

Property	Test Items	Units	Test Methods	PPS-1000
				Composite Materials
Mechanical Characteristics	Tensile Strength	Mpa	517-1-1，2	79
	Stretching	%	517-1-1，2	23.0
	Bending Strength	Mpa	178	128
	Flexural Elasticity	Gpa	178	3.3
	Poisson's Ratio	-	-	0.37
	Compressive Strength	Mpa	-	-
	Pendulum Impact Test	KJ/m^2 J/M	179/1eA	15
	Rockwell Hardness	-	-	-
Physical Properties	Specific Gravity (32℃)	g/cm^3	1183	1.35
	Water Absorption Rate (23℃, 24HR)	%	-	0.02
	Linear Expansion Coefficient	*10^{-5}/℃	11359-2	2.4-2.9
	Thermal Conductivity	W/mk	-	0.2
	Flammability (UL)	-	UL94	V-0quite
Heat Resistance Properties	Bending Temperature Under Load (1.82 Mpa)	℃	75-1,2	112
	Continuous Operating Temperature	℃	-	220
	Glass Transition Temperature	℃	-	88
	Melting Point	℃	-	278
Insulation Characteristics	Dielectric Strength	KV/mm MV/m	IEC60243-1	15
	Surface Impedance	Ω	IEC60093	10^{16}
	Volumetric Intrinsic Impedance	Ω· cm	IEC0093	10^{18}
	Permittivity 10^6hz	-	IEC60250	3.6
	Capacitor Tangent 10^8hz	-	IEC60250	0.0011

★The numerical values are representative values, not standard values.
Note : This date is not a guaranteed value, but a typical value.

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PPS-G1040 Properties

Parameter table

Property	Test Items	Units	Test Methods	PPS
				G1040
Mechanical Characteristics	Tensile Strength	Mpa	517-1-1，2	167
	Stretching	%	517-1-1，2	2.3
	Bending Strength	Mpa	178	235
	Flexural Elasticity	Gpa	178	11.8
	Poisson's Ratio	-	-	0.4
	Compressive Strength	Mpa	-	-
	Pendulum Impact Test	KJ/m^2 J/M	179/1eA	157
	Rockwell Hardness	-	-	M80
Physical Properties	Specific Gravity (32℃)	g/cm^3	1183	1.59
	Water Absorption Rate (23℃, 24HR)	%	-	0.015
	Linear Expansion Coefficient	*10^{-5}/℃	11359-2	1.7-6.8
	Thermal Conductivity	W/mk	-	-
	Flammability (UL)	-	UL94	V-2(0.8m)
Heat Resistance Properties	Bending Temperature Under Load (1.82 Mpa)	℃	75-1,2	260
	Continuous Operating Temperature	℃	-	260
	Glass Transition Temperature	℃	-	-
	Melting Point	℃	-	-
Insulation Characteristics	Dielectric Strength	KV/mm MV/m	IEC60243-1	18
	Surface Impedance	Ω	IEC60093	10^{16}
	Volumetric Intrinsic Impedance	Ω· cm	IEC0093	10^{16}
	Permittivity 10^6hz	-	IEC60250	4.1
	Capacitor Tangent 10^8hz	-	IEC60250	0.003

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