

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°C)	g/cm ³	1183	1.35
	Water Absorption Rate (23°C, 24HR)	%	-	0.02
	Linear Expansion Coefficient	*10 ⁻⁵ /°C	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)	°C	75-1,2	112
	Continuous Operating Temperature	°C	-	220
	Glass Transition Temperature	°C	-	88
	Melting Point	°C	-	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 ⁶ hz	-	IEC60250	3.6
	Capacitor Tangent 10 ⁸ hz	-	IEC60250	0.0011

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

The contents of this catalog are subject to change without prior notice for future improvement.
Application and the using conditions are required to be consulted when considering to purchase.
Duplication or reproduction of any part of this brochure without approval is prohibited.

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°C)	g/cm ³	1183	1.59
	Water Absorption Rate (23°C, 24HR)	%	-	0.015
	Linear Expansion Coefficient	*10 ⁻⁵ /°C	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)	°C	75-1,2	260
	Continuous Operating Temperature	°C	-	260
	Glass Transition Temperature	°C	-	-
	Melting Point	°C	-	-
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 ⁶ hz	-	IEC60250	4.1
	Capacitor Tangent 10 ⁸ hz	-	IEC60250	0.003

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