

Property	Test Condition	Test Method ISO	Units	Carbon fiber reinforced
				CF30%, Flame retardant
				A630T-30V
				>PPS-CF30<
Physical property				
Water Absorption	24hrs. in 23°C water	ISO 62	%	0.02
Density	23°C	ISO 1183	kg/m ³	1460
Color				Black
Mechanical property				
Tensile strength	23°C	ISO 527-1,2	MPa	235
Elongation at Break	23°C	ISO 527-1,2	%	1.5
Flexural Strength	23°C	ISO 178	MPa	335
Flexural Modulus	23°C	ISO 178	GPa	26.3
Coefficient of friction	Vs metal	-	-	-
Shear Strength	23°C	JIS K 7214	MPa	-
Rockwell Hardness		ISO 2039-2	R Scale	122
Taper Abrasion		ISO 9352	mg/1000times	39
Charpy Impact Strength (V-notched)	23°C	ISO 179	kJ/m ²	5.5
Charpy Impact Strength (Unnotched)	23°C	ISO 179	kJ/m ²	-
Heat property				
Melting Point		ISO 11357-3	°C	278
Coef of Linear Thermal Expansion	Machine Direction	ISO 11359-2	×10 ⁻⁵ /K	1.2
Coef of Linear Thermal Expansion	Transverse Direction	ISO 11359-2	×10 ⁻⁵ /K	1.8
Heat Deflection Temp High Load	1.80MPa	ISO 75-1,2	°C	260
Flammability		UL94	rank/thickness m mt	V-0 (0.72mmt)
Electrical property				
Volume Resistivity		IEC 60093	Ω · m	10 ¹
Dielectric Constant	23°C、60% RH、1MHz	IEC 60250	-	-
Dissipation Factor	23°C、60% RH、1MHz	IEC 60250	-	-
Molding property				
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.1
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.8
Bar Flow	320°C,98MPa,1mmt	Toray Method	×10 ⁻³ m	-

These values are typical data for this product under specific test conditions and not intended for use as limiting specifications.

