

Property	Test Condition	Test Method ISO	Units	Carbon fiber reinforced	
				CF30%, Flame retardant	
				A630T-30V	
				>PPS-CF30<	
<b>Physical property</b>					
Water Absorption	24hrs. in 23°C water	ISO62	%		0.02
Density	23°C	ISO1183	kg/m <sup>3</sup>		1460
Color					Black
<b>Mechanical property</b>					
Tensile strength	23°C	ISO527-1,2	MPa		235
Elongation at Break	23°C	ISO527-1,2	%		1.5
Flexural Strength	23°C	ISO178	MPa		335
Flexural Modulus	23°C	ISO178	GPa		26.3
Coefficient of friction	Vs metal	-	-		-
Shear Strength	23°C	JIS K7214	MPa		-
Rockwell Hardness		ISO2039-2	R Scale		122
Taper Abrasion		ISO9352	mg/1000times		39
Charpy Impact Strength (V-notched)	23°C	ISO179	kJ/m <sup>2</sup>		5.5
Charpy Impact Strength (Unnotched)	23°C	ISO179	kJ/m <sup>2</sup>		-
<b>Heat property</b>					
Melting Point		ISO11357-3	°C		278
Coef of Linear Thermal Expansion	Machine Direction	ISO11359-2	×10 <sup>-5</sup> /K		1.2
Coef of Linear Thermal Expansion	Transverse Direction	ISO11359-2	×10 <sup>-5</sup> /K		1.8
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	°C		260
Flammability		UL94	rank/thickness m mt		V-0 (0.72mmt)
<b>Electrical property</b>					
Volume Resistivity		IEC60093	Ω · m		10 <sup>1</sup>
Dielectric Constant	23°C, 60%RH, 1MHz	IEC 60250	-		-
Dissipation Factor	23°C, 60%RH, 1MHz	IEC 60250	-		-
<b>Molding property</b>					
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 <sup>-3</sup> m		-

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