

Property	Test Condition	Test Method ISO	Units	Carbon fiber reinforced	
				CF10%, Low Wear and Friction, Flame retardant	
				A512-X02N3	
				>PPS+PTFE-CF10<	
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO 62	%	0.02	
Density	23℃	ISO 1183	kg/m ³	1520	
Color				Black	
Mechanical property					
Tensile strength	23℃	ISO 527-1,2	MPa	110	
Elongation at Break	23℃	ISO 527-1,2	%	1.6	
Flexural Strength	23℃	ISO 178	MPa	160	
Flexural Modulus	23℃	ISO 178	GPa	9.5	
Coefficient of friction	Vs metal	-	-	-	
Shear Strength	23℃	JIS K 7214	MPa	-	
Rockwell Hardness		ISO 2039-2	R Scale	-	
Taper Abrasion		ISO 9352	mg/1000times	-	
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	3.8	
Charpy Impact Strength (Unnotched)	23℃	ISO 179	kJ/m ²	-	
Heat property					
Melting Point		ISO 11357-3	℃	278	
Coef of Linear Thermal Expansion	Machine Direction	ISO 11359-2	×10 ⁻⁵ /K	2.1	
Coef of Linear Thermal Expansion	Transverse Direction	ISO 11359-2	×10 ⁻⁵ /K	2.9	
Heat Deflection Temp High Load	1.80MPa	ISO 75-1,2	℃	260	
Flammability		UL94	rank/thickness m mt	V-0相当	
Electrical property					
Volume Resistivity		IEC 60093	Ω · m	10 ²	
Dielectric Constant	23℃、60% RH、1MHz	IEC 60250	-	-	
Dissipation Factor	23℃、60% RH、1MHz	IEC 60250	-	-	
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.2	
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	1.1	
Bar Flow	320℃,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.

