

Property	Test Condition	Test Method ISO	Units	Short carbon fiber reinforced PPS	
				CF10%, Low Wear and Friction, Flame retardant	
				A512-X02N3	
				>PPS-CF10<	
Physical property					
Content of filler		-	wt%	10	
Water Absorption	23℃×50%RH in water		%	-	
Density	23℃	ISO1183	kg/m ³	1515	
Mechanical property					
Tensile strength	23℃	ISO527-1,2	MPa	110	
Elongation at Break	23℃	ISO527-1,2	%	1.5	
Flexural Strength	23℃	ISO178	MPa	156	
Flexural Modulus	23℃	ISO178	GPa	9.4	
Coefficient of friction	Vs S45C、1MPa、0.33m/s	Suzuki Method	-	0.15	
Coefficient of friction	Vs SUS、1MPa、0.33m/s	Suzuki Method	-	0.06	
Amount of wear	Vs S45C、1MPa、0.33m/s	Suzuki Method	mg/h	0.2	
Amount of wear	Vs SUS、1MPa、0.33m/s	Suzuki Method	mg/h	0.5	
Limit of PV	Vs S45C	Suzuki Method	Mpa · m/s	2.9	
Limit of PV	Vs SUS	Suzuki Method	Mpa · m/s	2	
Charpy Impact Strength (V-notched)	23℃	ISO179	kJ/m ²	4.7	
Heat property					
Melting Point		DSC Method	℃	278	
Coef of Linear Thermal Expansion		ISO11359-2	×10 ⁻⁵ /℃	2.1	
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	℃	260	
Flammability		UL94	rank/thickness m mt	V-0Equivalent	
Electrical property					
Volume Resistivity		IEC60093	Ω · m	10 ⁻¹	
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.2	
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.8	

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