

Property	Test Condition	Test Method ISO	Units	Short carbon fiber reinforced P A66
				CF20%
				3101T-20V
				>PA66-CF20<
Physical property				
Content of filler		-	wt%	20
Water Absorption	23℃×50%RH in water		%	2
Density	23℃	ISO1183	kg/m ³	1230
Mechanical property				
Tensile strength	23℃	ISO527-1,2	MPa	223
Elongation at Break	23℃	ISO527-1,2	%	2.1
Flexural Strength	23℃	ISO178	MPa	310
Flexural Modulus	23℃	ISO178	GPa	13.8
Coefficient of friction	Vs S45C、1MPa、0.33m/s	Suzuki Method	-	0.32
Coefficient of friction	Vs SUS、1MPa、0.33m/s	Suzuki Method	-	-
Amount of wear	Vs S45C、1MPa、0.33m/s	Suzuki Method	mg/h	0.7
Amount of wear	Vs SUS、1MPa、0.33m/s	Suzuki Method	mg/h	-
Limit of PV	Vs S45C	Suzuki Method	Mpa · m/s	2.3
Limit of PV	Vs SUS	Suzuki Method	Mpa · m/s	-
Charpy Impact Strength (V-notched)	23℃	ISO179	kJ/m ²	8.1
Heat property				
Melting Point		DSC Method	℃	265
Coef of Linear Thermal Expansion		ISO11359-2	×10 ⁻⁵ /℃	2.4
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	℃	250
Flammability		UL94	rank/thickness m mt	HBEquivalent
Electrical property				
Volume Resistivity		IEC60093	Ω · m	2×10 ⁻²
Molding property				
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.3
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.9

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

