

Property	Test Condition	Test Method ISO	Units	Short carbon fiber reinforced P C
				CF+GF, Flame retardant
				NX85K-15
				>PC-CF5+GF8<
Physical property				
Content of filler		-	wt%	13
Water Absorption	23℃×50%RH in water		%	-
Density	23℃	ISO 1183	kg/m ³	1270
Mechanical property				
Tensile strength	23℃	ISO 527-1,2	MPa	73
Elongation at Break	23℃	ISO 527-1,2	%	2
Flexural Strength	23℃	ISO 178	MPa	115
Flexural Modulus	23℃	ISO 178	GPa	6.2
Coefficient of friction	Vs S45C、1MPa、0.33m/s	Suzuki Method	-	-
Coefficient of friction	Vs SUS、1MPa、0.33m/s	Suzuki Method	-	-
Limit of PV	Vs S45C	Suzuki Method	Mpa · m/s	-
Limit of PV	Vs SUS	Suzuki Method	Mpa · m/s	-
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	6.3
Heat property				
Melting Point		DSC Method	℃	-
Coef of Linear Thermal Expansion		ISO 11359-2	×10 ⁻⁵ /℃	-
Heat Deflection Temp High Load	1.80MPa	ISO 75-1,2	℃	121
Flammability		UL94	rank/thickness m mt	V-0 (1.5mmt)
Electrical property				
Surface Resistivity		IEC 60093	Ω	10 ⁵
Molding property				
Mold shrinkage(Machine Direction)	80×80×3mm t	Toray Method	%	0.25
Mold shrinkage(Transverse Direction)	80×80×3mm t	Toray Method	%	0.25~0.50
Melt Flow Rate	250℃/98N	ISO 1133	g/10min	28

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