

Property	Test Condition	Test Method ISO	Units	Long carbon fiber reinforced P
				CF30%
				TLP8169
				>PP-CF30<
Physical property				
Content of filler		-	wt%	30
Water Absorption	23℃×50%RH in water		%	-
Density	23℃	ISO1183	kg/m ³	1060
Mechanical property				
Tensile strength	23℃	ISO527-1,2	MPa	165
Elongation at Break	23℃	ISO527-1,2	%	1.5
Flexural Strength	23℃	ISO178	MPa	260
Flexural Modulus	23℃	ISO178	GPa	17
Coefficient of friction	Vs S45C、1MPa、0.33m/s	Suzuki Method	-	-
Coefficient of friction	Vs SUS、1MPa、0.33m/s	Suzuki Method	-	-
Amount of wear	Vs S45C、1MPa、0.33m/s	Suzuki Method	mg/h	-
Amount of wear	Vs SUS、1MPa、0.33m/s	Suzuki Method	mg/h	-
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℃	ISO179	kJ/m ²	16
Heat property				
Melting Point		DSC Method	℃	163
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	℃	159
Flammability		UL94	rank/thickness m mt	HBEquivalent
Electrical property				
Volume Resistivity		IEC60093	Ω · m	10 ⁻³ ~10 ⁻²
Molding property				
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.1
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.2

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

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