

Property	Test Condition	Test Method ISO	Units	Long carbon fiber reinforced P
				P
				CF20%
				TLP8148
>PP-CF20<				
Physical property				
Content of filler		-	wt%	20
Water Absorption	23°C×50%RH in water		%	-
Density	23°C	ISO1183	kg/m ³	1000
Mechanical property				
Tensile strength	23°C	ISO527-1,2	MPa	150
Elongation at Break	23°C	ISO527-1,2	%	2
Flexural Strength	23°C	ISO178	MPa	220
Flexural Modulus	23°C	ISO178	GPa	11
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°C	ISO179	kJ/m ²	11
Heat property				
Melting Point		DSC Method	°C	163
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	°C	159
Flammability		UL94	rank/thickness m mt	HBEquivalent
Electrical property				
Volume Resistivity		IEC60093	Ω · m	10 ⁰ ~10 ¹
Molding property				
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.1
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.3

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

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