

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 mmt	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
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Applications of torayca

Generic Component/Livingware housing equipment