

Property	Test Condition	Test Method ISO	Units	Unreinforced
				Standard
				1401X06
				>PBT<
Physical property				
Water Absorption	24hrs. in 23℃ water	ISO62	%	0.08
Density	23℃	ISO1183	kg/m ³	1310
Mechanical property				
Tensile strength	23℃	ISO527-1,2	MPa	55
Elongation at Break	23℃	ISO527-1,2	%	30
Tensile Modulus	23℃	ISO527-1,2	GPa	2.7
Flexural Strength	23℃	ISO178	MPa	90
Flexural Modulus	23℃	ISO178	GPa	2.5
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	0.13
Coefficient of friction	Vs metal	-	-	0.17
Rockwell Hardness	23℃	ISO2039-2	R Scale	M77
Charpy Impact Strength (V-notched)	23℃	ISO179	kJ/m ²	4.5
Charpy Impact Strength (Unnotched)	-40℃	ISO179	kJ/m ²	No Break
Charpy Impact Strength (Unnotched)	23℃	ISO179	kJ/m ²	241
Heat property				
Coef of Linear Thermal Expansion	-30~100℃	ISO11359-2	×10 ⁻⁵ /℃	11
Heat Deflection Temp Low Load	0.45MPa	ISO75-1,2	℃	150
Heat Deflection Temp High Load	1.82MPa	ISO75-1,2	℃	60
Flammability		UL94	rank/thickness mmt	HB(1/32")
Electrical property				
Volume Resistivity		IEC60093	Ω · m	8x10 ¹⁴
Dielectric Strength		IEC60243-1	MV/m	17
Dielectric Constant	23℃、60%RH、50Hz	IEC 60250	-	3.3
Dielectric Constant	23℃、60%RH、1KHz	IEC 60250	-	3.3
Dissipation Factor	23℃、60%RH、50Hz	IEC 60250	-	0.002
Dissipation Factor	23℃、60%RH、1MHz	IEC 60250	-	0.02
CTI		UL 746A	UL Index	0
Arc resistance	W electrode	IEC60950	sec	144
Molding property				
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	1.7
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	2.3
Bar Flow	250℃,93MPa,1mmt	Toray Method	×10 ⁻³ m	103
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Applications of toraycon

housing equipment

Special use

Generic Component/Livingware

Automobile