

Property	Test Condition	Test Method ISO	Units	Reinforced
				High impact, Heat cycle resistance, GF30%
				1101G-X54
				>PBT-I-GF30<
Physical property				
Water Absorption	24hrs. in 23℃ water	ISO 62	%	0.07
Density	23℃	ISO1183	kg/m ³	1460
Mechanical property				
Tensile strength	23℃	ISO527-1,2	MPa	120
Elongation at Break	23℃	ISO527-1,2	%	3.5
Tensile Modulus	23℃	ISO527-1,2	GPa	8.5
Flexural Strength	23℃	ISO178	MPa	190
Flexural Modulus	23℃	ISO178	GPa	8
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	0.17
Coefficient of friction	Vs metal	-	-	0.2
Rockwell Hardness	23℃	ISO2039-2	R Scale	M55
Charpy Impact Strength (V-notched)	23℃	ISO179	kJ/m ²	17
Charpy Impact Strength (Unnotched)	23℃	ISO179	kJ/m ²	65
Heat property				
Coef of Linear Thermal Expansion	-30~100℃	ISO11359-2	×10 ⁻⁵ /℃	4.2
Heat Deflection Temp Low Load	0.45MPa	ISO75-1,2	℃	220
Heat Deflection Temp High Load	1.82MPa	ISO75-1,2	℃	207
Flammability		UL94	rank/thickness mm	HBEquivalent
Electrical property				
Volume Resistivity		IEC60093	Ω · m	1.4×10 ¹⁵
Dielectric Strength		IEC60243-1	MV/m	28
Dielectric Constant	23℃、60% RH、50Hz	IEC 60250	-	3.8
Dielectric Constant	23℃、60% RH、1KHz	IEC 60250	-	3.7
Dissipation Factor	23℃、60% RH、50Hz	IEC 60250	-	0.002
Dissipation Factor	23℃、60% RH、1MHz	IEC 60250	-	0.02
Arc resistance	W electrode	IEC60950	sec	131
Molding property				
Mold shrinkage(Machine Direction)	80×80×3mm t	Toray Method	%	0.4
Mold shrinkage(Transverse Direction)	80×80×3mm t	Toray Method	%	1
Bar Flow	250℃,93MPa,1mm t	Toray Method	×10 ⁻³ m	75

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