

Property	Test Condition	Test Method ISO	Units	Reinforced	
				High impact, Hydrolysis resistant, GF30%	
				5101G-30U	
				>PBT-I-GF30<	
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO62	%	0.07	
Density	23℃	ISO1183	kg/m ³	1470	
Mechanical property					
Tensile strength	23℃	ISO527-1,2	MPa	130	
Elongation at Break	23℃	ISO527-1,2	%	4	
Tensile Modulus	23℃	ISO527-1,2	GPa	8.5	
Flexural Strength	23℃	ISO178	MPa	205	
Flexural Modulus	23℃	ISO178	GPa	8	
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	0.15	
Coefficient of friction	Vs metal	-	-	0.19	
Rockwell Hardness	23℃	ISO2039-2	R Scale	M60	
Charpy Impact Strength (V-notched)	23℃	ISO179	kJ/m ²	14	
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	℃	205	
Flammability		UL94	rank/thickness mm	HBEquivalent	
Electrical property					
Volume Resistivity		IEC60093	Ω · m	10 ¹⁵	
Dielectric Constant	23℃、60% RH、50Hz	IEC 60250	-	3.9	
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	130	
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	67	

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

