

Property	Test Condition	Test Method ISO	Units	Flame retardant reinforced	
				Low gas, GF30, V-0	
				1164G-30 FE	
				>PBT-GF30-FR(17)<	
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO62	%	0.07	
Density	23℃	ISO1183	kg/m ³	1690	
Mechanical property					
Tensile strength	23℃	ISO527-1,2	MPa	140	
Elongation at Break	23℃	ISO527-1,2	%	2.2	
Tensile Modulus	23℃	ISO527-1,2	GPa	11.7	
Flexural Strength	23℃	ISO178	MPa	205	
Flexural Modulus	23℃	ISO178	GPa	11	
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	0.15	
Coefficient of friction	Vs metal	-	-	0.2	
Rockwell Hardness	23℃	ISO2039-2	R Scale	M85	
Charpy Impact Strength (V-notched)	23℃	ISO179	kJ/m ²	6.5	
Charpy Impact Strength (Unnotched)	23℃	ISO179	kJ/m ²	35	
Heat property					
Coef of Linear Thermal Expansion	-30~100℃	ISO11359-2	×10 ⁻⁵ /℃	4	
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 m mt	V0(1/32")	
Electrical property					
Volume Resistivity		IEC60093	Ω · m	6×10 ¹⁴	
Dielectric Strength		IEC60243-1	MV/m	27	
Dielectric Constant	23℃、60%RH、50Hz	IEC 60250	-	4	
Dielectric Constant	23℃、60%RH、1KHz	IEC 60250	-	3.8	
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	2	
Arc resistance	W electrode	IEC60950	sec	-	
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mm t	Toray Method	%	0.4	
Mold shrinkage(Transverse Direction)	80×80×3mm t	Toray Method	%	1.2	
Bar Flow	250℃,93MPa,1mm t	Toray Method	×10 ⁻³ m	150	

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

