

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	ISO 62	%	0.07
Density	23℃	ISO 1183	kg/m ³	1690
Mechanical property				
Tensile strength	23℃	ISO 527-1,2	MPa	140
Elongation at Break	23℃	ISO 527-1,2	%	2.2
Tensile Modulus	23℃	ISO 527-1,2	GPa	11.7
Flexural Strength	23℃	ISO 178	MPa	205
Flexural Modulus	23℃	ISO 178	GPa	11
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	0.15
Coefficient of friction	Vs metal	-	-	0.2
Rockwell Hardness	23℃	ISO 2039-2	R Scale	M85
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	6.5
Charpy Impact Strength (Unnotched)	23℃	ISO 179	kJ/m ²	35
Heat property				
Coef of Linear Thermal Expansion	-30~100℃	ISO 11359-2	×10 ⁻⁵ /℃	4
Heat Deflection Temp Low Load	0.45MPa	ISO 75-1,2	℃	220
Heat Deflection Temp High Load	1.82MPa	ISO 75-1,2	℃	207
Flammability		UL94	rank/thickness m mt	V0(1/32")
Electrical property				
Volume Resistivity		IEC 60093	Ω · m	6×10 ¹⁴
Dielectric Strength		IEC 60243-1	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	IEC 60950	sec	-
Molding property				
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.4
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	1.2
Bar Flow	250℃,93MPa,1mmt	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.

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