

Property	Test Condition	Test Method ISO	Units	Flame retardant reinforced	
				Low Warpage, (GF+GS)33%, V-0	
				1154W	
				>PBT+P-(GF+GS)33-FR(17)<	
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO 62	%	0.07	
Density	23℃	ISO 1183	kg/m ³	1650	
Mechanical property					
Tensile strength	23℃	ISO 527-1,2	MPa	105	
Elongation at Break	23℃	ISO 527-1,2	%	2.5	
Tensile Modulus	23℃	ISO 527-1,2	GPa	9.8	
Flexural Strength	23℃	ISO 178	MPa	170	
Flexural Modulus	23℃	ISO 178	GPa	9.2	
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	-	
Coefficient of friction	Vs metal	-	-	-	
Rockwell Hardness	23℃	ISO 2039-2	R Scale	-	
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	5	
Charpy Impact Strength (Unnotched)	23℃	ISO 179	kJ/m ²	-	
Heat property					
Coef of Linear Thermal Expansion	-30~100℃	ISO 11359-2	×10 ⁻⁵ /℃	3.7	
Heat Deflection Temp Low Load	0.45MPa	ISO 75-1,2	℃	218	
Heat Deflection Temp High Load	1.82MPa	ISO 75-1,2	℃	194	
Flammability		UL94	rank/thickness mmt	V0(1/32")	
Electrical property					
Volume Resistivity		IEC 60093	Ω · m	6.4x10 ¹⁴	
Dielectric Strength		IEC 60243-1	MV/m	19	
Dielectric Constant	23℃、60% RH、50Hz	IEC 60250	-	4	
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	IEC 60950	sec	125	
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.4	
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.6	
Bar Flow	250℃,93MPa,1mmt	Toray Method	×10 ⁻³ m	101	

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

