

Property	Test Condition	Test Method ISO	Units	GF+Mineral filler reinforced
				High filler, Low warpage
				A310M
				>PPS-GF+MD70<
Physical property				
Water Absorption	24hrs. in 23℃ water	ISO 62	%	0.02
Density	23℃	ISO 1183	kg/m ³	2060
Color				Natural/Black
Mechanical property				
Tensile strength	23℃	ISO 527-1,2	MPa	115
Elongation at Break	23℃	ISO 527-1,2	%	0.8
Flexural Strength	23℃	ISO 178	MPa	200
Flexural Modulus	23℃	ISO 178	GPa	22
Coefficient of friction	Vs metal	-	-	0.3
Shear Strength	23℃	JIS K 7214	MPa	60
Rockwell Hardness		ISO 2039-2	R Scale	123
Taper Abrasion		ISO 9352	mg/1000times	70
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	7
Charpy Impact Strength (Unnotched)	23℃	ISO 179	kJ/m ²	16
Heat property				
Melting Point		ISO 11357-3	℃	278
Coef of Linear Thermal Expansion	Machine Direction	ISO 11359-2	×10 ⁻⁵ /K	1.9
Coef of Linear Thermal Expansion	Transverse Direction	ISO 11359-2	×10 ⁻⁵ /K	2
Heat Deflection Temp High Load	1.80MPa	ISO 75-1,2	℃	260
Flammability		UL94	rank/thickness m mt	V-0 (0.36mmt)
Electrical property				
Volume Resistivity		IEC 60093	Ω · m	10 ¹⁴
Dielectric Strength		IEC 60243-1	MV/m	22
Dielectric Constant	23℃、60% RH、1MHz	IEC 60250	-	5
Dissipation Factor	23℃、60% RH、1MHz	IEC 60250	-	0.002
Molding property				
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.2
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.5
Bar Flow	320℃,98MPa,1mmt	Toray Method	×10 ⁻³ m	90

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

