

Property	Test Condition	Test Method ISO	Units	GF+Mineral filler reinforced	
				High filler, High stiffness, High toughness	
				A400M-D1	
				>PPS-GF+MD55<	
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO62	%	0.02	
Density	23℃	ISO1183	kg/m ³	1820	
Color				Natural/Black	
Mechanical property					
Tensile strength	23℃	ISO527-1,2	MPa	170	
Elongation at Break	23℃	ISO527-1,2	%	1.3	
Flexural Strength	23℃	ISO178	MPa	255	
Flexural Modulus	23℃	ISO178	GPa	18.5	
Coefficient of friction	Vs metal	-	-	-	
Shear Strength	23℃	JIS K7214	MPa	-	
Rockwell Hardness		ISO2039-2	R Scale	122	
Taper Abrasion		ISO9352	mg/1000times	-	
Charpy Impact Strength (V-notched)	23℃	ISO179	kJ/m ²	8	
Charpy Impact Strength (Unnotched)	23℃	ISO179	kJ/m ²	30	
Heat property					
Melting Point		ISO11357-3	℃	278	
Coef of Linear Thermal Expansion	Machine Direction	ISO11359-2	×10 ⁻⁵ /K	1.8	
Coef of Linear Thermal Expansion	Transverse Direction	ISO11359-2	×10 ⁻⁵ /K	3	
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	℃	260	
Flammability		UL94	rank/thickness mmt	V-0 (0.36mmt)	
Electrical property					
Volume Resistivity		IEC60093	Ω · m	10 ¹⁴	
Dielectric Strength		IEC60243-1	MV/m	22	
Dielectric Constant	23℃、60%RH、1MHz	IEC 60250	-	4.9	
Dissipation Factor	23℃、60%RH、1MHz	IEC 60250	-	0.002	
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.16	
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.75	
Bar Flow	320℃,98MPa,1mmt	Toray Method	×10 ⁻³ m	115	

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

