

Property	Test Condition	Test Method ISO	Units	GF reinforced	
				GF40%、UL746C (f1)	
				AR04	
				>PPS-GF40<	
Physical property					
Water Absorption	24hrs. in 23°C water	ISO62	%	0.02	
Density	23°C	ISO1183	kg/m ³	1680	
Color				Natural/Black	
Mechanical property					
Tensile strength	23°C	ISO527-1,2	MPa	180	
Elongation at Break	23°C	ISO527-1,2	%	1.5	
Flexural Strength	23°C	ISO178	MPa	270	
Flexural Modulus	23°C	ISO178	GPa	15.5	
Coefficient of friction	Vs metal	-	-	0.25	
Shear Strength	23°C	JIS K7214	MPa	70	
Rockwell Hardness		ISO2039-2	R Scale	122	
Taper Abrasion		ISO9352	mg/1000times	50	
Charpy Impact Strength (V-notched)	23°C	ISO179	kJ/m ²	11	
Charpy Impact Strength (Unnotched)	23°C	ISO179	kJ/m ²	35	
Heat property					
Melting Point		ISO11357-3	°C	278	
Coef of Linear Thermal Expansion	Machine Direction	ISO11359-2	×10 ⁻⁵ /K	2.3	
Coef of Linear Thermal Expansion	Transverse Direction	ISO11359-2	×10 ⁻⁵ /K	3.1	
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	°C	260	
Flammability		UL94	rank/thickness m mt	V-0 (NC ; 0.38mmt) (BK ; 0.71m mt)	
Electrical property					
Volume Resistivity		IEC60093	Ω · m	10 ¹⁴	
Dielectric Strength		IEC60243-1	MV/m	24	
Dielectric Constant	23°C、60%RH、1MHz	IEC 60250	-	3.6	
Dissipation Factor	23°C、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	%	0.8	
Bar Flow	320°C,98MPa,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.