

Property	Test Condition	Test Method ISO	Units	GF+Mineral filler reinforced	
				Dimensional stability	
				A390M65	
				>PPS-PPE-GF+MD65<	
Physical property					
Water Absorption	24hrs. in 23°C water	ISO62	%		0.02
Density	23°C	ISO1183	kg/m ³		1990
Color					Black
Mechanical property					
Tensile strength	23°C	ISO527-1,2	MPa		105
Elongation at Break	23°C	ISO527-1,2	%		0.9
Flexural Strength	23°C	ISO178	MPa		210
Flexural Modulus	23°C	ISO178	GPa		19.5
Coefficient of friction	Vs metal	-	-		0.3
Shear Strength	23°C	JIS K7214	MPa		60
Rockwell Hardness		ISO2039-2	R Scale		122
Taper Abrasion		ISO9352	mg/1000times		70
Charpy Impact Strength (V-notched)	23°C	ISO179	kJ/m ²		7
Charpy Impact Strength (Unnotched)	23°C	ISO179	kJ/m ²		17
Heat property					
Melting Point		ISO11357-3	°C		278
Coef of Linear Thermal Expansion	Machine Direction	ISO11359-2	×10 ⁻⁵ /K		1.9
Coef of Linear Thermal Expansion	Transverse Direction	ISO11359-2	×10 ⁻⁵ /K		2.5
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	°C		260
Flammability		UL94	rank/thickness m mt		V-0 (0.72mmt)
Electrical property					
Volume Resistivity		IEC60093	Ω · m		10 ¹⁴
Dielectric Strength		IEC60243-1	MV/m		21
Dielectric Constant	23°C、60%RH、1MHz	IEC 60250	-		5.3
Dissipation Factor	23°C、60%RH、1MHz	IEC 60250	-		0.002
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%		0.25
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%		0.5
Bar Flow	320°C,98MPa,1mmt	Toray Method	×10 ⁻³ m		80

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

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