


Property	Test Condition	Test Method ISO	Units	GF+ Mineral filler reinforced
				High filler, High flow
				A360M
				>PPS-GF+MD60<
<b>Physical property</b>				
Water Absorption	24hrs. in 23°C water	ISO62	%	0.02
Density	23°C	ISO1183	kg/m <sup>3</sup>	1890
Color				Natural/Black
<b>Mechanical property</b>				
Tensile strength	23°C	ISO527-1,2	MPa	140
Elongation at Break	23°C	ISO527-1,2	%	0.9
Flexural Strength	23°C	ISO178	MPa	220
Flexural Modulus	23°C	ISO178	GPa	19
Coefficient of friction	Vs metal	-	-	0.28
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 <sup>2</sup>	8
Charpy Impact Strength (Unnotched)	23°C	ISO179	kJ/m <sup>2</sup>	19
<b>Heat property</b>				
Melting Point		ISO11357-3	°C	278
Coef of Linear Thermal Expansion	Machine Direction	ISO11359-2	×10 <sup>-5</sup> /K	1.8
Coef of Linear Thermal Expansion	Transverse Direction	ISO11359-2	×10 <sup>-5</sup> /K	2.8
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	°C	260
Flammability		UL94	rank/thickness mmt	V-0 (0.71mmt)
<b>Electrical property</b>				
Volume Resistivity		IEC60093	Ω · m	10 <sup>14</sup>
Dielectric Strength		IEC60243-1	MV/m	24
Dielectric Constant	23°C, 60%RH, 1MHz	IEC 60250	-	4.9
Dissipation Factor	23°C, 60%RH, 1MHz	IEC 60250	-	0.002
<b>Molding property</b>				
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.22
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.71
Bar Flow	320°C,98MPa,1mmt	Toray Method	×10 <sup>-3</sup> m	135
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