

Property	Test Condition	Test Method ISO	Units	GF+Mineral filler reinforced	
				High filler, UL746(f1)	
				AR10M	
				>PPS-GF+MD65<	
<b>Physical property</b>					
Water Absorption	24hrs. in 23°C water	ISO62	%		0.02
Density	23°C	ISO1183	kg/m <sup>3</sup>		1960
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		225
Flexural Modulus	23°C	ISO178	GPa		20
Coefficient of friction	Vs metal	-	-		0.3
Shear Strength	23°C	JIS K7214	MPa		60
Rockwell Hardness		ISO2039-2	R Scale		123
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>		20
<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		2.6
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	°C		260
Flammability		UL94	rank/thickness m mt		V-0 (0.71mmt)
<b>Electrical property</b>					
Volume Resistivity		IEC60093	Ω · m		10 <sup>14</sup>
Dielectric Strength		IEC60243-1	MV/m		22
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	%		0.2
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%		0.6
Bar Flow	320°C,98MPa,1mmt	Toray Method	×10 <sup>-3</sup> m		110

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