

Property	Test Condition	Test Method ISO	Units	Special purpose	
				Insulating properties, High thermal conductivity	
				H718L	
				>PPS-GF+MD65<	
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO62	%	0.02	
Density	23℃	ISO1183	kg/m ³	1900	
Color				Black	
Mechanical property					
Tensile strength	23℃	ISO527-1,2	MPa	110	
Elongation at Break	23℃	ISO527-1,2	%	0.6	
Flexural Strength	23℃	ISO178	MPa	170	
Flexural Modulus	23℃	ISO178	GPa	21.5	
Coefficient of friction	Vs metal	-	-	-	
Shear Strength	23℃	JIS K7214	MPa	-	
Rockwell Hardness		ISO2039-2	R Scale	-	
Taper Abrasion		ISO9352	mg/1000times	-	
Charpy Impact Strength (V-notched)	23℃	ISO179	kJ/m ²	7	
Charpy Impact Strength (Unnotched)	23℃	ISO179	kJ/m ²	15	
Heat property					
Melting Point		ISO11357-3	℃	278	
Coef of Linear Thermal Expansion	Machine Direction	ISO11359-2	×10 ⁻⁵ /K	2	
Coef of Linear Thermal Expansion	Transverse Direction	ISO11359-2	×10 ⁻⁵ /K	2.5	
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	℃	260	
Flammability		UL94	rank/thickness mmt	V-0 (0.38mmt)	
Electrical property					
Volume Resistivity		IEC60093	Ω · m	10 ¹⁴	
Dielectric Constant	23℃、60%RH、1MHz	IEC 60250	-	-	
Dissipation Factor	23℃、60%RH、1MHz	IEC 60250	-	-	
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.2	
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.65	
Bar Flow	320℃,98MPa,1mmt	Toray Method	×10 ⁻³ m	100	

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

