

Property	Test Condition	Test Method ISO	Units	Nylon66/Unreinforced	
				High flow	
				CM3007	
				>PA66<	
				Dry	2.5%water
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO 62	%	1.2	-
Water Absorption	23℃ in water	ISO 62	%	8	-
Density	23℃	ISO 1183	kg/m ³	1140	
Mechanical property					
Tensile strength	-40℃	ISO 527-1,2	MPa	115	110
Tensile strength	23℃	ISO 527-1,2	MPa	80	50
Tensile strength	80℃	ISO 527-1,2	MPa	40	40
Elongation at Yield	23℃	ISO 527-1,2	%	1.5	-
Elongation at Break	23℃	ISO 527-1,2	%	25	50
Flexural Strength	-40℃	ISO 178	MPa	140	125
Flexural Strength	23℃	ISO 178	MPa	115	65
Flexural Strength	80℃	ISO 178	MPa	65	40
Flexural Modulus	-40℃	ISO 178	GPa	4.3	4.1
Flexural Modulus	23℃	ISO 178	GPa	2.9	1.4
Flexural Modulus	80℃	ISO 178	GPa	0.9	0.5
Compressive Strength	23℃	ISO 604	MPa	90	-
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	0.15～0.2	-
Shear Strength	23℃	ASTM D732	MPa	75	70
Rockwell Hardness	23℃	ISO 2039-2	R Scale	119	100
Rockwell Hardness	80℃	ISO 2039-2	R Scale	97	-
Taper Abrasion		ISO 9352	mg/1000times	8	-
Charpy Impact Strength (V-notched)	-40℃	ISO 179	kJ/m ²	2.5	-
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	4	23.5
Charpy Impact Strength (Unnotched)	-40℃	ISO 179	kJ/m ²	破断せず	-
Charpy Impact Strength (Unnotched)	23℃	ISO 179	kJ/m ²	破断せず	-
Heat property					
Melting Point		DSC Method	℃	265	-
Specific Heat		-	J/g · ℃	2.1	-
Thermal Conductivity		-	W/m · ℃	0.32	-
Coef of Linear Thermal Expansion		ISO 11359-2	×10 ⁻⁵ /℃	9～10	-
Heat Deflection Temp Low Load	0.45MPa	ISO 75-1,2	℃	220	
Flammability		UL94	rank/thickness m mt	V-2(1/64")	V-2(1/64")
Electrical property					
Volume Resistivity		IEC 60093	Ω · m	10 ¹² ～10 ¹³	10 ¹⁰ ～10 ¹¹
Dielectric Strength		IEC 60243-1	MV/m	18	-
Dielectric Constant	23℃、60%RH、50Hz	IEC 60250	-	4	7.5
Dielectric Constant	23℃、60%RH、1KHz	IEC 60250	-	3.9	6.5
Dielectric Constant	23℃、60%RH、1MHz	IEC 60250	-	3.3	3.8
Dissipation Factor	23℃、60%RH、50Hz	IEC 60250	-	0.03	0.06
Dissipation Factor	23℃、60%RH、1KHz	IEC 60250	-	0.03	0.06
Dissipation Factor	23℃、60%RH、1MHz	IEC 60250	-	0.02	0.07
IEC Tracking Index(CTI)		UL-746B	-	-	-
Arc resistance	Tungsten Electrode	UL-746A	sec.	130	-
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	1.5～2.2	-
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%		-
Mold shrinkage(Machine Direction)	80×80×1mmt	Toray Method	%	0.8～1.5	

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