

Property	Test Condition	Test Method ISO	Units	Nylon66/Reinforced	
				Heat stability, GF15%	
				CM3006G-15	
				>PA66-GF15<	
				Dry	1.9%water
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO 62	%	1	-
Water Absorption	23℃ in water	ISO 62	%	7.2	-
Density	23℃	ISO 1183	kg/m ³	1260	
Mechanical property					
Tensile strength	-40℃	ISO 527-1,2	MPa	155	145
Tensile strength	23℃	ISO 527-1,2	MPa	110	90
Tensile strength	80℃	ISO 527-1,2	MPa	65	50
Elongation at Break	-40℃	ISO 527-1,2	%	2	-
Elongation at Break	23℃	ISO 527-1,2	%	2	4.5
Elongation at Break	80℃	ISO 527-1,2	%	7.5	-
Flexural Strength	-40℃	ISO 178	MPa	225	190
Flexural Strength	23℃	ISO 178	MPa	180	135
Flexural Strength	80℃	ISO 178	MPa	115	85
Flexural Modulus	-40℃	ISO 178	GPa	6.6	6.3
Flexural Modulus	23℃	ISO 178	GPa	5.8	3.7
Flexural Modulus	80℃	ISO 178	GPa	2.8	2.2
Compressive Strength	-40℃	ISO 604	MPa	-	-
Compressive Strength	23℃	ISO 604	MPa	-	-
Compressive Strength	80℃	ISO 604	MPa	-	-
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	-	-
Shear Strength	23℃	ASTM D732	MPa	80	
Rockwell Hardness	23℃	ISO 2039-2	R Scale	R120,M95	-
Rockwell Hardness	80℃	ISO 2039-2	R Scale	-	-
Taper Abrasion		ISO 9352	mg/1000times	-	-
Charpy Impact Strength (V-notched)	-40℃	ISO 179	kJ/m ²	-	-
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	6	-
Charpy Impact Strength (Unnotched)	-40℃	ISO 179	kJ/m ²	-	-
Charpy Impact Strength (Unnotched)	23℃	ISO 179	kJ/m ²	30	-
Heat property					
Melting Point		DSC Method	℃	265	-
Specific Heat		-	J/g · ℃	2	-
Thermal Conductivity		-	W/m · ℃	0.36	-
Coef of Linear Thermal Expansion		ISO 11359-2	×10 ⁻⁵ /℃	4	-
Heat Deflection Temp Low Load	0.45MPa	ISO 75-1,2	℃	-	-
Flammability		UL94	rank/thickness m mt	HB(1/32")	HB(1/32")
Electrical property					
Volume Resistivity		IEC 60093	Ω · m	10 ¹³	10 ¹⁰ ~10 ¹¹
Dielectric Strength		IEC 60243-1	MV/m	20	-
Dielectric Constant	23℃、60% RH、50Hz	IEC 60250	-	4.3	-
Dielectric Constant	23℃、60% RH、1KHz	IEC 60250	-	4.1	-
Dielectric Constant	23℃、60% RH、1MHz	IEC 60250	-	3.6	-
Dissipation Factor	23℃、60% RH、50Hz	IEC 60250	-	0.04	-
Dissipation Factor	23℃、60% RH、1KHz	IEC 60250	-	0.04	-
Dissipation Factor	23℃、60% RH、1MHz	IEC 60250	-	0.04	-
Arc resistance	Tungsten Electrode	UL-746A	sec.	-	-
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.7~1.0	-
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	1.0~1.4	

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

