

Property	Test Condition	Test Method ISO	Units	Nylon6/Reinforced	
				Standard, GF15%	
				CM1011G-15	
				>PA6-GF15<	
				Dry	3.0%water
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO 62	%	1.3	-
Water Absorption	23℃ in water	ISO 62	%	8.3	-
Density	23℃	ISO 1183	kg/m ³	1250	
Mechanical property					
Tensile strength	-40℃	ISO 527-1,2	MPa	150	120
Tensile strength	23℃	ISO 527-1,2	MPa	130	65
Tensile strength	80℃	ISO 527-1,2	MPa	55	30
Elongation at Break	-40℃	ISO 527-1,2	%	2	5
Elongation at Break	23℃	ISO 527-1,2	%	2.5	6
Elongation at Break	80℃	ISO 527-1,2	%	6	7.5
Flexural Strength	-40℃	ISO 178	MPa	245	-
Flexural Strength	23℃	ISO 178	MPa	200	100
Flexural Strength	80℃	ISO 178	MPa	100	50
Flexural Modulus	-40℃	ISO 178	GPa	7.3	5.9
Flexural Modulus	23℃	ISO 178	GPa	5.8	2.7
Flexural Modulus	80℃	ISO 178	GPa	2.3	1.7
Compressive Strength	-40℃	ISO 604	MPa	220	140
Compressive Strength	23℃	ISO 604	MPa	150	75
Compressive Strength	80℃	ISO 604	MPa	85	45
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	0.15	-
Shear Strength	23℃	ASTM D732	MPa	105	
Rockwell Hardness	23℃	ISO 2039-2	R Scale	R119,M90	-
Rockwell Hardness	80℃	ISO 2039-2	R Scale	10	-
Taper Abrasion		ISO 9352	mg/1000times	0.3	-
Charpy Impact Strength (V-notched)	-40℃	ISO 179	kJ/m ²	6	7
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	9	9.5
Charpy Impact Strength (Unnotched)	-40℃	ISO 179	kJ/m ²	20	25
Charpy Impact Strength (Unnotched)	23℃	ISO 179	kJ/m ²	50	60
Heat property					
Melting Point		DSC Method	℃	225	-
Specific Heat		-	J/g · ℃	1.7	-
Thermal Conductivity		-	W/m · ℃	0.31	-
Coef of Linear Thermal Expansion		ISO 11359-2	×10 ⁻⁵ /℃	4.5	-
Heat Deflection Temp Low Load	0.45MPa	ISO 75-1,2	℃	210	-
Flammability		UL94	rank/thickness m mt	HB相当	HB相当
Electrical property					
Volume Resistivity		IEC 60093	Ω · m	10 ¹³	10 ¹⁰
Dielectric Strength		IEC 60243-1	MV/m	20	-
Dielectric Constant	23℃、60% RH、50Hz	IEC 60250	-	4.5	-
Dielectric Constant	23℃、60% RH、1KHz	IEC 60250	-	4.3	-
Dielectric Constant	23℃、60% RH、1MHz	IEC 60250	-	3.7	-
Dissipation Factor	23℃、60% RH、50Hz	IEC 60250	-	0.05	-
Dissipation Factor	23℃、60% RH、1KHz	IEC 60250	-	0.04	-
Dissipation Factor	23℃、60% RH、1MHz	IEC 60250	-	0.03	-
Arc resistance	Tungsten Electrode	UL-746A	sec.	120	-
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.5～0.7	-
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.7～1.1	

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

