

Property	Test Condition	Test Method ISO	Units	Nylon610	
				Standard	
				CM2001	
				>PA610<	
				Dry	1.5%water
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO 62	%	0.3	-
Water Absorption	23℃ in water	ISO 62	%	4	-
Density	23℃	ISO 1183	kg/m ³	1080	
Mechanical property					
Tensile strength	-40℃	ISO 527-1,2	MPa	85	-
Tensile strength	23℃	ISO 527-1,2	MPa	55	40
Tensile strength	80℃	ISO 527-1,2	MPa	25	-
Elongation at Yield	23℃	ISO 527-1,2	%	-	-
Elongation at Break	23℃	ISO 527-1,2	%	50	50
Flexural Strength	-40℃	ISO 178	MPa	-	-
Flexural Strength	23℃	ISO 178	MPa	95	55
Flexural Strength	80℃	ISO 178	MPa	-	-
Flexural Modulus	-40℃	ISO 178	GPa	2.3	-
Flexural Modulus	23℃	ISO 178	GPa	2	0.9
Flexural Modulus	80℃	ISO 178	GPa	0.5	-
Compressive Strength	23℃	ISO 604	MPa	65	-
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	-	-
Shear Strength	23℃	ASTM D732	MPa	50	45
Rockwell Hardness	23℃	ISO 2039-2	R Scale	116	-
Rockwell Hardness	80℃	ISO 2039-2	R Scale	-	-
Taper Abrasion		ISO 9352	mg/1000times	4	-
Charpy Impact Strength (V-notched)	-40℃	ISO 179	kJ/m ²	-	-
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	40	-
Charpy Impact Strength (Unnotched)	-40℃	ISO 179	kJ/m ²	-	-
Charpy Impact Strength (Unnotched)	23℃	ISO 179	kJ/m ²	破断せず	破断せず
Heat property					
Melting Point		DSC Method	℃	225	-
Specific Heat		-	J/g · ℃	1.9	-
Thermal Conductivity		-	W/m · ℃	0.25	-
Coef of Linear Thermal Expansion		ISO 11359-2	×10 ⁻⁵ /℃	12	-
Heat Deflection Temp Low Load	0.45MPa	ISO 75-1,2	℃	180	
Flammability		UL94	rank/thickness m mt	自己消火性	自己消火性
Electrical property					
Volume Resistivity		IEC 60093	Ω · m	10 ¹¹ ~10 ¹²	-
Dielectric Strength		IEC 60243-1	MV/m	-	-
Dielectric Constant	23℃、60% RH、50Hz	IEC 60250	-	3.9	-
Dielectric Constant	23℃、60% RH、1KHz	IEC 60250	-	3.6	-
Dielectric Constant	23℃、60% RH、1MHz	IEC 60250	-	3.1	-
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	-	0.02	-
IEC Tracking Index(CTI)		UL-746B	-	-	-
Arc resistance	Tungsten Electrode	UL-746A	sec.	-	-
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.7~1.3	-
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%		-
Mold shrinkage(Machine Direction)	80×80×1mmt	Toray Method	%	0.3~0.7	

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

