

Property	Test Condition	Test Method ISO	Units	Nylon610		Nylon610		Nylon610
				Standard		Heat stability		Weather Resistance, Specially Modified
				CM2001		CM2006		CM2402
				>PA610<		>PA610<		>PA610<
				Dry	1.5%water	Dry	1.5%water	Dry
Physical property								
Water Absorption	24hrs. in 23℃ water	ISO62	%	0.3	-	0.3	-	-
Water Absorption	23℃ in water	ISO62	%	4	-	4	-	-
Density	23℃	ISO1183	kg/m ³	1080	-	1080	-	1080
Mechanical property								
Tensile strength	-40℃	ISO527-1,2	MPa	85	-	-	-	-
Tensile strength	23℃	ISO527-1,2	MPa	55	40	60	-	60
Tensile strength	80℃	ISO527-1,2	MPa	25	-	-	-	-
Elongation at Yield	23℃	ISO527-1,2	%	-	-	-	-	-
Elongation at Break	23℃	ISO527-1,2	%	50	50	50	50	50
Flexural Strength	-40℃	ISO178	MPa	-	-	-	-	-
Flexural Strength	23℃	ISO178	MPa	95	55	95	-	80
Flexural Strength	80℃	ISO178	MPa	-	-	-	-	-
Flexural Modulus	-40℃	ISO178	GPa	2.3	-	-	-	-
Flexural Modulus	23℃	ISO178	GPa	2	0.9	2	-	2
Flexural Modulus	80℃	ISO178	GPa	0.5	-	-	-	-
Compressive Strength	23℃	ISO604	MPa	65	-	-	-	-
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	-	-	-	-	-
Shear Strength	23℃	ASTM D732	MPa	50	45	50	-	-
Rockwell Hardness	23℃	ISO2039-2	R Scale	116	-	116	-	-
Rockwell Hardness	80℃	ISO2039-2	R Scale	-	-	-	-	-
Taper Abrasion		ISO9352	mg/1000times	4	-	-	-	-
Charpy Impact Strength (V-notched)	-40℃	ISO179	kJ/m ²	-	-	-	-	-
Charpy Impact Strength (V-notched)	23℃	ISO179	kJ/m ²	40	-	40	-	-
Charpy Impact Strength (Unnotched)	-40℃	ISO179	kJ/m ²	-	-	-	-	-
Charpy Impact Strength (Unnotched)	23℃	ISO179	kJ/m ²	破断せず	破断せず	破断せず	破断せず	-
Heat property								
Melting Point		DSC Method	℃	225	-	225	-	220
Specific Heat		-	J/g · ℃	1.9	-	1.9	-	-
Thermal Conductivity		-	W/m · ℃	0.25	-	0.25	-	-
Coef of Linear Thermal Expansion		ISO11359-2	×10 ⁻⁵ /℃	12	-	12	-	-
Heat Deflection Temp Low Load	0.45MPa	ISO75-1,2	℃	180	-	180	-	-
Flammability		UL94	rank/thickness mm	自己消火性	自己消火性	自己消火性	自己消火性	-
Electrical property								
Volume Resistivity		IEC60093	Ω · m	10 ¹¹ ~10 ¹²	-	10 ¹¹ ~10 ¹²	-	-
Dielectric Strength		IEC60243-1	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)	80×80×3mm	Toray Method	%	0.7~1.3	-	-	-	-
Mold shrinkage(Transverse Direction)	80×80×3mm	Toray Method	%		-	-	-	-
Mold shrinkage(Machine Direction)	80×80×1mm	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.