

Property	Test Condition	Test Method ISO	Units	Nylon6/Blow molding	
				Standard	
				CM1046	
				>PA6<	
				Dry	3.5%water
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO 62	%	1.8	-
Water Absorption	23℃ in water	ISO 62	%	10.5	-
Density	23℃	ISO 1183	kg/m ³	1130	-
Mechanical property					
Tensile strength	-40℃	ISO 527-1,2	MPa	110	100
Tensile strength	23℃	ISO 527-1,2	MPa	75	35
Tensile strength	80℃	ISO 527-1,2	MPa	25	20
Elongation at Break	-40℃	ISO 527-1,2	%	3	3
Elongation at Break	23℃	ISO 527-1,2	%	50	50
Elongation at Break	80℃	ISO 527-1,2	%	50	50
Flexural Strength	-40℃	ISO 178	MPa	135	125
Flexural Strength	23℃	ISO 178	MPa	100	40
Flexural Strength	80℃	ISO 178	MPa	40	25
Flexural Modulus	-40℃	ISO 178	GPa	3.8	3.6
Flexural Modulus	23℃	ISO 178	GPa	2.5	0.8
Flexural Modulus	80℃	ISO 178	GPa	0.7	0.3
Rockwell Hardness	23℃	ISO 2039-2	R Scale	119	-
Taper Abrasion		ISO 9352	mg/1000times	3～4	-
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	3	-
Charpy Impact Strength (Unnotched)	-40℃	ISO 179	kJ/m ²	5.5	40
Charpy Impact Strength (Unnotched)	23℃	ISO 179	kJ/m ²	破断せず	-
Heat property					
Melting Point		DSC Method	℃	225	-
Coef of Linear Thermal Expansion		ISO 11359-2	×10 ⁻⁵ /℃	8	-
Heat Deflection Temp Low Load	0.45MPa	ISO 75-1,2	℃	182	-
Heat Deflection Temp High Load	1.80MPa	ISO 75-1,2	℃	65	-
Electrical property					
Volume Resistivity		IEC 60093	Ω・m	10 ¹² ～10 ¹³	-
Dielectric Strength		IEC 60243-1	MV/m	20	-
Dielectric Constant	23℃、60%RH、50Hz	IEC 60250	-	3.4	4.5
Dielectric Constant	23℃、60%RH、1KHz	IEC 60250	-	0.03	0.13
IEC Tracking Index(CTI)		UL-746B	-	-	-
Arc resistance	Tungsten Electrode	UL-746A	sec.	-	-

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

