

Property	Test Condition	Test Method ISO	Units	Nylon6/Blow molding		Nylon6/Blow molding		Nylon6/Blow molding		Nylon6/Blow molding		Nylon6/Blow molding	
				Standard		High viscosity		High viscosity, High impact		High viscosity, High impact		GF20%, High viscosity	
				CM1046		CM1061		CM1056		CM1046K4		CM1056K48	
				>PA6<		>PA6<		>PA6<		>PA6-GF20<		>PA6-GF20<	
				Dry	3.5%water	Dry	3.5%water	Dry	3.0%water	Dry	2.8%water	Dry	2.5%water
Physical property													
Water Absorption	24hrs. in 23℃ water	ISO62	%	1.8	-	1.8	-	1.7	-	1.3	-	1.2	-
Water Absorption	23℃ in water	ISO62	%	10.5	-	10.5	-	8	-	7.5	-	6.5	-
Density	23℃	ISO1183	kg/m ³	1130	-	1130	-	1090	-	1290	-	1260	-
Mechanical property													
Tensile strength	-40℃	ISO527-1,2	MPa	110	100	110	100	105	95	195	-	190	165
Tensile strength	23℃	ISO527-1,2	MPa	75	35	80	35	60	35	120	70	115	70
Tensile strength	80℃	ISO527-1,2	MPa	25	20	30	20	25	20	70	-	55	45
Elongation at Break	-40℃	ISO527-1,2	%	3	3	3	3	3.5	1	2.5	-	2.5	3
Elongation at Break	23℃	ISO527-1,2	%	50	50	40	50	50	50	3	9	3	9
Elongation at Break	80℃	ISO527-1,2	%	50	50	50	50	50	50	4.5	-	4	5
Flexural Strength	-40℃	ISO178	MPa	135	125	-	-	130	-	270	-	-	-
Flexural Strength	23℃	ISO178	MPa	100	40	100	40	80	-	185	100	175	100
Flexural Strength	80℃	ISO178	MPa	40	25	-	-	-	-	90	-	-	-
Flexural Modulus	-40℃	ISO178	GPa	3.8	3.6	-	-	2.9	-	6.2	-	6	3.4
Flexural Modulus	23℃	ISO178	GPa	2.5	0.8	2.6	0.8	2.1	0.7	5.8	2.6	5.2	2.6
Flexural Modulus	80℃	ISO178	GPa	0.7	0.3	-	-	0.5	-	3	-	2.3	1
Rockwell Hardness	23℃	ISO2039-2	R Scale	119	-	119	-	114	-	120	-	119	-
Taper Abrasion		ISO9352	mg/1000times	3~4	-	3~4	-	6~7	-	12	-	-	-
Charpy ImpactStrength (V-notched)	23℃	ISO179	kJ/m ²	3	-	-	-	13.5	-	6	-	6.5	-
Charpy ImpactStrength (Unnotched)	-40℃	ISO179	kJ/m ²	5.5	40	6	42	16	54	7.5	22	11.5	27
Charpy ImpactStrength (Unnotched)	23℃	ISO179	kJ/m ²	破断せず	-	-	-	破断せず	-	-	-	-	-
Heat property													
Melting Point		DSC Method	℃	225	-	225	-	225	-	225	-	225	-
Coef of Linear Thermal Expansion		ISO11359-2	×10 ⁻⁵ /℃	8	-	8	-	8~9	-	3~4	-	-	-
Heat Deflection Temp Low Load	0.45MPa	ISO75-1,2	℃	182	-	182	-	160	-	215	-	214	-
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	℃	65	-	65	-	51	-	185	-	184	-
Electrical property													
Volume Resistivity		IEC60093	Ω・m	10 ¹² ~10 ¹³	-	10 ¹² ~10 ¹³	10 ⁹ ~10 ¹⁰	-	-	10 ¹³	-	-	-
Dielectric Strength		IEC60243-1	MV/m	20	-	20	-	-	-	20	-	-	-
Dielectric Constant	23℃、60%RH、50Hz	IEC 60250	-	3.4	4.5	3.4	4.5	-	-	-	-	-	-
Dielectric Constant	23℃、60%RH、1KHz	IEC 60250	-	0.03	0.13	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.