

Property	Test Condition	Test Method ISO	Units	Nylon6/Abrasion Resistance	Nylon6/Abrasion Resistance
				Unreinforced	GF30%
				CM1023G1000	CM1003G30
				>PA6-XD<	>PA6-GF30+XD<
				Dry	Dry
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO62	%	1.8	1.1
Water Absorption	23℃ in water	ISO62	%	10.5	6.4
Density	23℃	ISO1183	kg/m ³	1130	1370
Mechanical property					
Tensile strength	-40℃	ISO527-1,2	MPa	-	-
Tensile strength	23℃	ISO527-1,2	MPa	75	160
Elongation at Break	-40℃	ISO527-1,2	%	-	-
Elongation at Break	23℃	ISO527-1,2	%	3.5	2.5
Elongation at Break	80℃	ISO527-1,2	%	-	-
Flexural Strength	-40℃	ISO178	MPa	-	-
Flexural Strength	23℃	ISO178	MPa	105	230
Flexural Modulus	-40℃	ISO178	GPa	-	-
Flexural Modulus	23℃	ISO178	GPa	2.8	9
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	0.1~0.15	0.2
Rockwell Hardness	23℃	ISO2039-2	R Scale	119	120
Taper Abrasion		ISO9352	mg/1000times	6	24
Charpy Impact Strength (V-notched)	-40℃	ISO179	kJ/m ²	-	-
Charpy Impact Strength (V-notched)	23℃	ISO179	kJ/m ²	2.5	12
Charpy Impact Strength (Unnotched)	-40℃	ISO179	kJ/m ²	-	-
Heat property					
Melting Point		DSC Method	℃	225	225
Coef of Linear Thermal Expansion		ISO11359-2	×10 ⁻⁵ /℃	9~10	2~3
Heat Deflection Temp Low Load	0.45MPa	ISO75-1,2	℃	182	224
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	℃	-	215
Flammability		UL94	rank/thickness mm	HB	HB
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mm	Toray Method	%	0.5~0.9	0.2~0.4
Mold shrinkage(Transverse Direction)	80×80×3mm	Toray Method	%	1.0~1.6	0.5~0.8

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