

Property	Test Condition	Test Method ISO	Units	Nylon66/Abrasion Resistance	Nylon66/Abrasion Resistance	Nylon66/Abrasion Resistance
				Unreinforced	GF30%	GF30%
				CM3003G1000	CM3003G30	CM3903GX010
				>PA66-XD<	>PA66-GF30+XD<	>PA66-GF30<
				Dry	Dry	Dry
Physical property						
Water Absorption	24hrs. in 23℃ water	ISO62	%	1.1	0.6	0.4
Water Absorption	23℃ in water	ISO62	%	7.5	5.5	5
Density	23℃	ISO1183	kg/m ³	1190	1380	1430
Mechanical property						
Tensile strength	-40℃	ISO527-1,2	MPa	-	-	230
Tensile strength	23℃	ISO527-1,2	MPa	100	170	160
Elongation at Break	-40℃	ISO527-1,2	%	-	-	-
Elongation at Break	23℃	ISO527-1,2	%	2.5	3	3
Elongation at Break	80℃	ISO527-1,2	%	-	-	-
Flexural Strength	-40℃	ISO178	MPa	-	-	300
Flexural Strength	23℃	ISO178	MPa	140	270	230
Flexural Modulus	-40℃	ISO178	GPa	-	-	8.5
Flexural Modulus	23℃	ISO178	GPa	3.2	10	8
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	0.1~0.15	0.2	-
Rockwell Hardness	23℃	ISO2039-2	R Scale	119	121	120
Taper Abrasion		ISO9352	mg/1000times	7	23	20
Charpy Impact Strength (V-notched)	-40℃	ISO179	kJ/m ²	-	-	10.5
Charpy Impact Strength (V-notched)	23℃	ISO179	kJ/m ²	4	10	12
Charpy Impact Strength (Unnotched)	-40℃	ISO179	kJ/m ²	-	-	-
Heat property						
Melting Point		DSC Method	℃	265	265	265
Coef of Linear Thermal Expansion		ISO11359-2	×10 ⁻⁵ /℃	7~8	2~3	2~3
Heat Deflection Temp Low Load	0.45MPa	ISO75-1,2	℃	220	262	262
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	℃	-	255	240
Flammability		UL94	rank/thickness mm	HB	HB	HB
Molding property						
Mold shrinkage(Machine Direction)	80×80×3mm	Toray Method	%	0.5~1.2	0.2~0.5	0.2~0.4
Mold shrinkage(Transverse Direction)	80×80×3mm	Toray Method	%	1.2~2.0	0.6~0.8	0.6~0.8

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