

Property	Test Condition	Test Method ISO	Units	Nylon6/Abrasion Resistance	
				Unreinforced	
				CM1023G1000	
				>PA6-XD<	
				Dry	
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	-	
Tensile strength	23℃	ISO 527-1,2	MPa	75	
Elongation at Break	-40℃	ISO 527-1,2	%	-	
Elongation at Break	23℃	ISO 527-1,2	%	3.5	
Elongation at Break	80℃	ISO 527-1,2	%	-	
Flexural Strength	-40℃	ISO 178	MPa	-	
Flexural Strength	23℃	ISO 178	MPa	105	
Flexural Modulus	-40℃	ISO 178	GPa	-	
Flexural Modulus	23℃	ISO 178	GPa	2.8	
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	0.1~0.15	
Rockwell Hardness	23℃	ISO 2039-2	R Scale	119	
Taper Abrasion		ISO 9352	mg/1000times	6	
Charpy Impact Strength (V-notched)	-40℃	ISO 179	kJ/m ²	-	
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	2.5	
Charpy Impact Strength (Unnotched)	-40℃	ISO 179	kJ/m ²	-	
Heat property					
Melting Point		DSC Method	℃	225	
Coef of Linear Thermal Expansion		ISO 11359-2	×10 ⁻⁵ /℃	9~10	
Heat Deflection Temp Low Load	0.45MPa	ISO 75-1,2	℃	182	
Heat Deflection Temp High Load	1.80MPa	ISO 75-1,2	℃	-	
Flammability		UL94	rank/thickness m mt	HB	
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.5~0.9	
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	1.0~1.6	

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

