

Property	Test Condition	Test Method ISO	Units	High Impact/Nylon6		High Impact/Nylon6		High Impact/Nylon6	
				Standard		Super high Impact		GF35%	
				U121		U141		U127GX07	
				>PA6-I<		>PA6-I<		>PA6-I-GF35<	
				Dry	2.8%water	Dry	2.1%water	Dry	1.6%water
Physical property									
Water Absorption	24hrs. in 23℃ water	ISO62	%	1.7	-	0.7	-	0.6	
Water Absorption	23℃ in water	ISO62	%	8	-	6	-	5	-
Density	23℃	ISO1183	kg/m ³	1090	-	1060	-	1350	-
Mechanical property									
Tensile strength	-40℃	ISO527-1,2	MPa	90	70	80	68	-	-
Tensile strength	23℃	ISO527-1,2	MPa	60	35	50	32	150	100
Elongation at Break	-40℃	ISO527-1,2	%	12.5	18.5	15.5	21.5	-	-
Elongation at Break	23℃	ISO527-1,2	%	50	50	50	50	4.5	7
Flexural Strength	-40℃	ISO178	MPa	115	100	65	90	-	-
Flexural Strength	23℃	ISO178	MPa	80	35	55	33	210	120
Flexural Modulus	-40℃	ISO178	GPa	2.5	2.5	2.3	2.3	-	-
Flexural Modulus	23℃	ISO178	GPa	2	0.8	1.5	0.7	7.9	4.4
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	-	-	-	-	-	-
Rockwell Hardness	23℃	ISO2039-2	R Scale	114	-	112	-	115	-
Taper Abrasion		ISO9352	mg/1000times	6~7	-	7~8	-	13	-
Charpy Impact Strength (V-notched)	-40℃	ISO179	kJ/m ²	10.5	15.5	33.5	37	-	-
Charpy Impact Strength (V-notched)	23℃	ISO179	kJ/m ²	16.5	65.6	105	130	30	40
Charpy Impact Strength (Unnotched)	23℃	ISO179	kJ/m ²	破断せず	破断せず	破断せず	破断せず	120	160
Heat property									
Melting Point		DSC Method	℃	225	-	225	-	225	-
Coef of Linear Thermal Expansion		ISO11359-2	×10 ⁻⁵ /℃	9~10	-	7~8	-	4	-
Heat Deflection Temp Low Load	0.45MPa	ISO75-1,2	℃	160	-	155	-	210	-
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	℃	57	-	55	-	195	-
Molding property									
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	-	-	-	-	-	-
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	1.2~1.3	-	0.8~1.3	-	0.2~0.8	-

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