

Property	Test Condition	Test Method ISO	Units	High Impact/Nylon66		High Impact/Nylon66		High Impact/Nylon66	
				Standard		Super high impact, Low temperature high impact		Super high impact, Soft	
				U320		U328		U625X21	
				>PA66-I<		>PA66-I<		>PA66-I<	
				Dry	2.5%water	Dry	2.0%water	Dry	2.0%water
Physical property									
Water Absorption	24hrs. in 23℃ water	ISO62	%	1.1	-	1.1	-	1.3	-
Water Absorption	23℃ in water	ISO62	%	6	-	6	-	7	-
Density	23℃	ISO1183	kg/m ³	1090	-	1070	-	1080	-
Mechanical property									
Tensile strength	-40℃	ISO527-1,2	MPa	100	92	80	-	80	-
Tensile strength	23℃	ISO527-1,2	MPa	60	43	55	45	55	40
Elongation at Break	-40℃	ISO527-1,2	%	5.5	8.5	15.5	-	20	-
Elongation at Break	23℃	ISO527-1,2	%	30	50	62	86.5	40	50
Flexural Strength	-40℃	ISO178	MPa	115	110	105	-	105	-
Flexural Strength	23℃	ISO178	MPa	75	40	70	35	70	35
Flexural Modulus	-40℃	ISO178	GPa	2.6	2.6	2.3	-	2.4	-
Flexural Modulus	23℃	ISO178	GPa	2	0.8	1.8	0.6	1.9	0.7
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	-	-	-	-	-	-
Rockwell Hardness	80℃	ISO2039-2	R Scale	114	-	114	-	114	-
Taper Abrasion		ISO9352	mg/1000times	7~8	-	7~8	-	7~8	-
Charpy Impact Strength (V-notched)	-40℃	ISO179	kJ/m ²	14	20	31	-	14	-
Charpy Impact Strength (V-notched)	23℃	ISO179	kJ/m ²	21.5	57	130	130	89	100
Charpy Impact Strength (Unnotched)	23℃	ISO179	kJ/m ²	-	-	-	-	-	-
Heat property									
Melting Point		DSC Method	℃	265	-	265	-	265	-
Coef of Linear Thermal Expansion		ISO11359-2	×10 ⁻⁵ /℃	10~11	-	10~11	-	10~11	-
Heat Deflection Temp Low Load	0.45MPa	ISO75-1,2	℃	180	-	217	-	-	-
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	℃	60	-	67	-	63	-
Molding property									
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	-	-	-	-	-	-
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	1.2~1.5	-	1.2~1.8	-	2.0~2.1	-

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