

Property	Test Condition	Test Method ISO	Units	Nylon66/Unreinforced	
				High toughness	
				CM3301L	
				>PA66<	
				Dry	2.5%water
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO62	%	1.2	-
Water Absorption	23℃ in water	ISO62	%	8	-
Density	23℃	ISO1183	kg/m ³	1140	
Mechanical property					
Tensile strength	-40℃	ISO527-1,2	MPa	-	-
Tensile strength	23℃	ISO527-1,2	MPa	75	-
Tensile strength	80℃	ISO527-1,2	MPa	-	-
Elongation at Yield	23℃	ISO527-1,2	%	-	-
Elongation at Break	23℃	ISO527-1,2	%	36.5	50
Flexural Strength	-40℃	ISO178	MPa	-	-
Flexural Strength	23℃	ISO178	MPa	105	-
Flexural Strength	80℃	ISO178	MPa	-	-
Flexural Modulus	-40℃	ISO178	GPa	-	-
Flexural Modulus	23℃	ISO178	GPa	2.6	-
Flexural Modulus	80℃	ISO178	GPa	-	-
Compressive Strength	23℃	ISO604	MPa	100	-
Coefficient of friction（Without lubrication）	Vs metal	Suzuki Method	-	-	-
Shear Strength	23℃	ASTM D732	MPa	-	-
Rockwell Hardness	23℃	ISO2039-2	R Scale	118	99
Rockwell Hardness	80℃	ISO2039-2	R Scale	-	-
Taper Abrasion		ISO9352	mg/1000times	-	-
Charpy Impact Strength（V-notched）	-40℃	ISO179	kJ/m ²	-	-
Charpy Impact Strength（V-notched）	23℃	ISO179	kJ/m ²	4	-
Charpy Impact Strength（Unnotched）	-40℃	ISO179	kJ/m ²	破断せず	-
Charpy Impact Strength（Unnotched）	23℃	ISO179	kJ/m ²	破断せず	-
Heat property					
Melting Point		DSC Method	℃	245	-
Specific Heat		-	J/g・℃	-	-
Thermal Conductivity		-	W/m・℃	-	-
Coef of Linear Thermal Expansion		ISO11359-2	×10 ⁻⁵ /℃	-	-
Heat Deflection Temp Low Load	0.45MPa	ISO75-1,2	℃	-	-
Flammability		UL94	rank/thickness m mt	自己消火性	自己消火性
Electrical property					
Volume Resistivity		IEC60093	Ω・m	10 ¹² ~10 ¹³	10 ¹⁰ ~10 ¹¹
Dielectric Strength		IEC60243-1	MV/m	-	-
Dielectric Constant	23℃、60% RH、50Hz	IEC 60250	-	-	-
Dielectric Constant	23℃、60% RH、1KHz	IEC 60250	-	-	-
Dielectric Constant	23℃、60% RH、1MHz	IEC 60250	-	-	-
Dissipation Factor	23℃、60% RH、50Hz	IEC 60250	-	-	-
Dissipation Factor	23℃、60% RH、1KHz	IEC 60250	-	-	-
Dissipation Factor	23℃、60% RH、1MHz	IEC 60250	-	-	-
IEC Tracking Index(CTI)		UL-746B	-	-	-
Arc resistance	Tungsten Electrode	UL-746A	sec.	-	-
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	-	-
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	-	-

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

