

Property	Test Condition	Test Method ISO	Units	Nylon66/Flame Retardant	
				Unreinforced, Non-halogen	
				CM3004-V0	
				>PA66-FR<	
				Dry	2.2%water
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO 62	%	1.1	-
Water Absorption	23℃ in water	ISO 62	%	7.5	-
Density	23℃	ISO 1183	kg/m ³	1190	-
Mechanical property					
Tensile strength	-40℃	ISO 527-1,2	MPa	-	-
Tensile strength	23℃	ISO 527-1,2	MPa	85	65
Tensile strength	80℃	ISO 527-1,2	MPa	45	-
Elongation at Break	-40℃	ISO 527-1,2	%	-	-
Elongation at Break	23℃	ISO 527-1,2	%	7.5	7.5
Elongation at Break	80℃	ISO 527-1,2	%	-	-
Flexural Strength	-40℃	ISO 178	MPa	170	-
Flexural Strength	23℃	ISO 178	MPa	125	70
Flexural Strength	80℃	ISO 178	MPa	65	-
Flexural Modulus	-40℃	ISO 178	GPa	-	-
Flexural Modulus	23℃	ISO 178	GPa	3.5	1.5
Flexural Modulus	80℃	ISO 178	GPa	1.2	-
Rockwell Hardness	23℃	ISO 2039-2	R Scale	120	-
Taper Abrasion		ISO 9352	mg/1000times	9~10	-
Charpy Impact Strength (V-notched)	-40℃	ISO 179	kJ/m ²	4.5	-
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	4.5	13
Charpy Impact Strength (Unnotched)	-40℃	ISO 179	kJ/m ²	135	破断せず
Heat property					
Melting Point		DSC Method	℃	265	-
Coef of Linear Thermal Expansion		ISO 11359-2	×10 ⁻⁵ /℃	-	-
Heat Deflection Temp Low Load	0.45MPa	ISO 75-1,2	℃	244	-
Heat Deflection Temp High Load	1.80MPa	ISO 75-1,2	℃	-	-
Flammability		UL94	rank/thickness m mt	V-0(1/64")	V-0(1/64")
Electrical property					
Volume Resistivity		IEC 60093	Ω・m	10 ¹³	
Dielectric Strength		IEC 60243-1	MV/m	28	-
Dielectric Constant	23℃、60% RH、50Hz	IEC 60250	-	5.2	-
Dissipation Factor	23℃、60% RH、50Hz	IEC 60250	-	0.07	-
IEC Tracking Index(CTI)		UL-746B	-	600	-
Arc resistance	Tungsten Electrode	UL-746A	sec.	127	-
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	1.0~1.6	1.0~1.6
Mold shrinkage(Machine Direction)	80×80×1mmt	Toray Method	%	0.6~0.9	0.6~0.9

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

