

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°C water	ISO62	%	1.1	-
Water Absorption	23°C in water	ISO62	%	7.5	-
Density	23°C	ISO1183	kg/m ³	1190	-
Mechanical property					
Tensile strength	-40°C	ISO527-1,2	MPa	-	-
Tensile strength	23°C	ISO527-1,2	MPa	85	65
Tensile strength	80°C	ISO527-1,2	MPa	45	-
Elongation at Break	-40°C	ISO527-1,2	%	-	-
Elongation at Break	23°C	ISO527-1,2	%	7.5	7.5
Elongation at Break	80°C	ISO527-1,2	%	-	-
Flexural Strength	-40°C	ISO178	MPa	170	-
Flexural Strength	23°C	ISO178	MPa	125	70
Flexural Strength	80°C	ISO178	MPa	65	-
Flexural Modulus	-40°C	ISO178	GPa	-	-
Flexural Modulus	23°C	ISO178	GPa	3.5	1.5
Flexural Modulus	80°C	ISO178	GPa	1.2	-
Rockwell Hardness	23°C	ISO2039-2	R Scale	120	-
Taper Abrasion		ISO9352	mg/1000times	9~10	-
Charpy Impact Strength (V-notched)	-40°C	ISO179	kJ/m ²	4.5	-
Charpy Impact Strength (V-notched)	23°C	ISO179	kJ/m ²	4.5	13
Charpy Impact Strength (Unnotched)	-40°C	ISO179	kJ/m ²	135	破断せず
Heat property					
Melting Point		DSC Method	°C	265	-
Coef of Linear Thermal Expansion		ISO11359-2	×10 ⁻⁵ /°C	-	-
Heat Deflection Temp Low Load	0.45MPa	ISO75-1,2	°C	244	-
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	°C	-	-
Flammability		UL94	rank/thickness m mt	V-0(1/64")	V-0(1/64")
Electrical property					
Volume Resistivity		IEC60093	Ω · m	10 ¹³	-
Dielectric Strength		IEC60243-1	MV/m	28	-
Dielectric Constant	23°C、60%RH、50Hz	IEC 60250	-	5.2	-
Dissipation Factor	23°C、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.