

Property	Test Condition	Test Method ISO	Units	Nylon66/Flame Retardant	
				GF30%, Halogen	
				CM3004G-30	
				>PA66-GF30FR<	
				Dry	1.0%water
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO 62	%	0.6	-
Water Absorption	23℃ in water	ISO 62	%	4	-
Density	23℃	ISO 1183	kg/m ³	1590	-
Mechanical property					
Tensile strength	-40℃	ISO 527-1,2	MPa	190	-
Tensile strength	23℃	ISO 527-1,2	MPa	165	135
Tensile strength	80℃	ISO 527-1,2	MPa	110	-
Elongation at Break	-40℃	ISO 527-1,2	%	2.5	-
Elongation at Break	23℃	ISO 527-1,2	%	3	3
Elongation at Break	80℃	ISO 527-1,2	%	4.5	-
Flexural Strength	-40℃	ISO 178	MPa	275	-
Flexural Strength	23℃	ISO 178	MPa	250	200
Flexural Strength	80℃	ISO 178	MPa	150	-
Flexural Modulus	-40℃	ISO 178	GPa	10.2	-
Flexural Modulus	23℃	ISO 178	GPa	9.3	6.5
Flexural Modulus	80℃	ISO 178	GPa	5.5	-
Rockwell Hardness	23℃	ISO 2039-2	R Scale	121	-
Taper Abrasion		ISO 9352	mg/1000times	26	-
Charpy Impact Strength (V-notched)	-40℃	ISO 179	kJ/m ²	7	-
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	9.5	14
Charpy Impact Strength (Unnotched)	23℃	ISO 179	kJ/m ²	65	70
Heat property					
Melting Point		DSC Method	℃	265	-
Coef of Linear Thermal Expansion		ISO 11359-2	×10 ⁻⁵ /℃	2	
Heat Deflection Temp Low Load	0.45MPa	ISO 75-1,2	℃	-	-
Heat Deflection Temp High Load	1.82MPa	ISO 75-1,2	℃	251	
Flammability		UL94	rank/thickness m mt	V-0(1/64")	V-0(1/64")
Electrical property					
Volume Resistivity		IEC 60093	Ω · m	10 ¹³	10 ¹¹
Dielectric Strength		IEC 60243-1	MV/m	38	33
Dielectric Constant	23℃、60% RH、1KHz	IEC 60250	-	4	-
Dielectric Constant	23℃、60% RH、1MHz	IEC 60250	-	0.01	-
IEC Tracking Index(CTI)		UL-746B	-	200	-
Arc resistance	Tungsten Electrode	UL-746A	sec.	70	-
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.2~0.5	
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.6~0.9	

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

