

Property	Test Condition	Test Method ISO	Units	Nylon66/Flame Retardant	
				GF20%, Halogen	
				CM3004G-20	
				>PA66-GF20FR<	
				Dry	1.3%water
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO62	%	0.4	-
Water Absorption	23℃ in water	ISO62	%	4.5	-
Density	23℃	ISO1183	kg/m ³	1500	-
Mechanical property					
Tensile strength	-40℃	ISO527-1,2	MPa	150	-
Tensile strength	23℃	ISO527-1,2	MPa	130	105
Tensile strength	80℃	ISO527-1,2	MPa	85	-
Elongation at Break	-40℃	ISO527-1,2	%	2.5	-
Elongation at Break	23℃	ISO527-1,2	%	3	3
Elongation at Break	80℃	ISO527-1,2	%	4.5	-
Flexural Strength	-40℃	ISO178	MPa	225	-
Flexural Strength	23℃	ISO178	MPa	210	155
Flexural Strength	80℃	ISO178	MPa	135	-
Flexural Modulus	-40℃	ISO178	GPa	7.7	-
Flexural Modulus	23℃	ISO178	GPa	7	4.2
Flexural Modulus	80℃	ISO178	GPa	4.2	-
Rockwell Hardness	23℃	ISO2039-2	R Scale	120	-
Taper Abrasion		ISO9352	mg/1000times	25	-
Charpy Impact Strength (V-notched)	-40℃	ISO179	kJ/m ²	7	-
Charpy Impact Strength (V-notched)	23℃	ISO179	kJ/m ²	9.5	12
Charpy Impact Strength (Unnotched)	23℃	ISO179	kJ/m ²	50	60
Heat property					
Melting Point		DSC Method	℃	265	-
Coef of Linear Thermal Expansion		ISO11359-2	×10 ⁻⁵ /℃	4	
Heat Deflection Temp Low Load	0.45MPa	ISO75-1,2	℃	-	-
Heat Deflection Temp High Load	1.82MPa	ISO75-1,2	℃	245	-
Flammability		UL94	rank/thickness m mt	V-0(1/64")	V-0(1/64")
Electrical property					
Volume Resistivity		IEC60093	Ω · m	10 ¹³	10 ¹¹
Dielectric Strength		IEC60243-1	MV/m	31	26
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	-	210	-
Arc resistance	Tungsten Electrode	UL-746A	sec.	70	-
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.4~0.6	
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.8~1.2	

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

