

Property	Test Condition	Test Method ISO	Units	Nylon66/Flame Retardant	
				Unreinforced, Halogen	
				CM3304-V0	
				>PA66-FR<	
				Dry	1.8%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	1310	-
Mechanical property					
Tensile strength	-40℃	ISO527-1,2	MPa	-	-
Tensile strength	23℃	ISO527-1,2	MPa	75	55
Tensile strength	80℃	ISO527-1,2	MPa	-	-
Elongation at Break	-40℃	ISO527-1,2	%	-	-
Elongation at Break	23℃	ISO527-1,2	%	3.5	6
Elongation at Break	80℃	ISO527-1,2	%	-	-
Tensile Modulus	23℃	ISO527-1,2	GPa	-	-
Flexural Strength	-40℃	ISO178	MPa	-	-
Flexural Strength	23℃	ISO178	MPa	110	60
Flexural Strength	80℃	ISO178	MPa	-	-
Flexural Modulus	-40℃	ISO178	GPa	-	-
Flexural Modulus	23℃	ISO178	GPa	2.9	1.3
Flexural Modulus	80℃	ISO178	GPa	-	-
Rockwell Hardness	23℃	ISO2039-2	R Scale	120	-
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	9.5
Charpy Impact Strength (Unnotched)	-40℃	ISO179	kJ/m ²	-	-
Heat property					
Melting Point		DSC Method	℃	244	-
Coef of Linear Thermal Expansion		ISO11359-2	×10 ⁻⁵ /℃	10	-
Heat Deflection Temp Low Load	0.45MPa	ISO75-1,2	℃	-	-
Heat Deflection Temp High Load	1.80MPa	ISO75-1,2	℃	-	-
Flammability		UL94	rank/thickness m mt	V-0(1/32")	V-0(1/32")
Electrical property					
Volume Resistivity		IEC60093	Ω · m	10 ¹³	
Dielectric Strength		IEC60243-1	MV/m	25	-
Dielectric Constant	23℃、60%RH、50Hz	IEC 60250	-	-	-
Dissipation Factor	23℃、60%RH、50Hz	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	%	1.0~1.4	1.0~1.4
Mold shrinkage(Machine Direction)	80×80×1mmt	Toray Method	%	0.6~0.8	0.6~0.8

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

