

Property	Test Condition	Test Method ISO	Units	Nylon6/Flame Retardant	
				Unreinforced, Non-halogen	
				CM1014-V0	
				>PA6-FR<	
				Dry	3.0%water
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO62	%	1.7	-
Water Absorption	23℃ in water	ISO62	%	9.5	-
Density	23℃	ISO1183	kg/m ³	1180	-
Mechanical property					
Tensile strength	-40℃	ISO527-1,2	MPa	-	-
Tensile strength	23℃	ISO527-1,2	MPa	80	45
Tensile strength	80℃	ISO527-1,2	MPa	40	-
Elongation at Break	-40℃	ISO527-1,2	%	-	-
Elongation at Break	23℃	ISO527-1,2	%	7.5	37
Elongation at Break	80℃	ISO527-1,2	%	55.5	-
Flexural Strength	-40℃	ISO178	MPa	150	-
Flexural Strength	23℃	ISO178	MPa	115	45
Flexural Strength	80℃	ISO178	MPa	55	-
Flexural Modulus	-40℃	ISO178	GPa	-	-
Flexural Modulus	23℃	ISO178	GPa	3.5	1.2
Flexural Modulus	80℃	ISO178	GPa	1	-
Rockwell Hardness	23℃	ISO2039-2	R Scale	120	-
Taper Abrasion		ISO9352	mg/1000times	5~6	-
Charpy Impact Strength (V-notched)	-40℃	ISO179	kJ/m ²	3.5	-
Charpy Impact Strength (V-notched)	23℃	ISO179	kJ/m ²	4.5	21.5
Charpy Impact Strength (Unnotched)	-40℃	ISO179	kJ/m ²	120	破断せず
Heat property					
Melting Point		DSC Method	℃	225	-
Coef of Linear Thermal Expansion		ISO11359-2	×10 ⁻⁵ /℃	-	-
Heat Deflection Temp Low Load	0.45MPa	ISO75-1,2	℃	207	-
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	30	-
Dielectric Constant	23℃、60%RH、1MHz	IEC 60250	-	5.2	-
Dissipation Factor	23℃、60%RH、1MHz	IEC 60250	-	0.08	-
IEC Tracking Index(CTI)		UL-746B	-	600	-
Arc resistance	Tungsten Electrode	UL-746A	sec.	120	-
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	1.0~1.3	
Mold shrinkage(Machine Direction)	80×80×1mmt	Toray Method	%	0.4~0.8	

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

