

Property	Test Condition	Test Method ISO	Units	Co-polymer Nylon/GF Reinforced	
				Good Appearance, High flow, GF50%	
				CM3511G50	
				>PA-GF50<	
				Dry	
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO 62	%	0.3	
Water Absorption	23℃ in water	ISO 62	%		
Density	23℃	ISO 1183	kg/m ³	1590	
Mechanical property					
Tensile strength	-40℃	ISO 527-1,2	MPa	-	
Tensile strength	23℃	ISO 527-1,2	MPa	210	
Tensile strength	80℃	ISO 527-1,2	MPa	-	
Elongation at Break	-40℃	ISO 527-1,2	%	-	
Elongation at Break	23℃	ISO 527-1,2	%	3.2	
Elongation at Break	80℃	ISO 527-1,2	%	-	
Flexural Strength	-40℃	ISO 178	MPa	-	
Flexural Strength	23℃	ISO 178	MPa	320	
Flexural Strength	80℃	ISO 178	MPa	-	
Flexural Modulus	-40℃	ISO 178	GPa	-	
Flexural Modulus	23℃	ISO 178	GPa	14.5	
Flexural Modulus	80℃	ISO 178	GPa	-	
Compressive Strength	-40℃	ISO 604	MPa	-	
Compressive Strength	23℃	ISO 604	MPa	-	
Compressive Strength	80℃	ISO 604	MPa	-	
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-		
Shear Strength	23℃	ASTM D732	MPa	-	
Rockwell Hardness	23℃	ISO 2039-2	R Scale	-	
Rockwell Hardness	80℃	ISO 2039-2	R Scale	-	
Taper Abrasion		ISO 9352	mg/1000times	-	
Charpy Impact Strength (V-notched)	-40℃	ISO 179	kJ/m ²	-	
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	28.2	
Charpy Impact Strength (Unnotched)	-40℃	ISO 179	kJ/m ²	-	
Charpy Impact Strength (Unnotched)	23℃	ISO 179	kJ/m ²	-	
Heat property					
Melting Point		DSC Method	℃	216	
Specific Heat		-	J/g · ℃	1.5	
Thermal Conductivity		-	W/m · ℃	0.4	
Coef of Linear Thermal Expansion		ISO 11359-2	×10 ⁻⁵ /℃	2~3	
Heat Deflection Temp Low Load	0.45MPa	ISO 75-1,2	℃	215	
Flammability		UL94	rank/thickness mmt	HB	
Electrical property					
Volume Resistivity		IEC 60093	Ω · m	10 ¹⁰ ~10 ¹¹	
Dielectric Strength		IEC 60243-1	MV/m	-	
Dielectric Constant	23℃、60% RH、50Hz	IEC 60250	-	-	
Dielectric Constant	23℃、60% RH、1KHz	IEC 60250	-	-	
Dielectric Constant	23℃、60% RH、1MHz	IEC 60250	-	-	
Dissipation Factor	23℃、60% RH、50Hz	IEC 60250	-	-	
Dissipation Factor	23℃、60% RH、1KHz	IEC 60250	-	-	
Dissipation Factor	23℃、60% RH、1MHz	IEC 60250	-	-	
Arc resistance	Tungsten Electrode	UL-746A	sec.	-	
Molding property					
Mold shrinkage(Machine Direction)	80×80×3mmt	Toray Method	%	0.2~0.4	
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.5~0.7	

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

