

Property	Test Condition	Test Method ISO	Units	Nylon66/Flame Retardant	
				GF30%, Non-halogen, Toughness	
				HF3064G30	
				>PA66-GF30FR<	
				Dry	
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO 62	%	0.7	
Water Absorption	23℃ in water	ISO 62	%	4	
Density	23℃	ISO 1183	kg/m ³	1530	
Mechanical property					
Tensile strength	-40℃	ISO 527-1,2	MPa	-	
Tensile strength	23℃	ISO 527-1,2	MPa	154	
Tensile strength	80℃	ISO 527-1,2	MPa	-	
Elongation at Break	-40℃	ISO 527-1,2	%	-	
Elongation at Break	23℃	ISO 527-1,2	%	2.5	
Elongation at Break	80℃	ISO 527-1,2	%	-	
Flexural Strength	-40℃	ISO 178	MPa	-	
Flexural Strength	23℃	ISO 178	MPa	234	
Flexural Strength	80℃	ISO 178	MPa	-	
Flexural Modulus	-40℃	ISO 178	GPa	-	
Flexural Modulus	23℃	ISO 178	GPa	10.4	
Flexural Modulus	80℃	ISO 178	GPa	-	
Rockwell Hardness	23℃	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	10.7	
Charpy Impact Strength (Unnotched)	23℃	ISO 179	kJ/m ²	-	
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	℃	251	
Flammability		UL94	rank/thickness mmt	V-0(1/32")	
Electrical property					
Volume Resistivity		IEC 60093	Ω · m	10 ¹³	
Dielectric Strength		IEC 60243-1	MV/m	-	
Dielectric Constant	23℃、60% RH、1KHz	IEC 60250	-	-	
Dielectric Constant	23℃、60% RH、1MHz	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	%	0.1~0.3	
Mold shrinkage(Transverse Direction)	80×80×3mmt	Toray Method	%	0.9~1.1	

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

