

Property	Test Condition	Test Method ISO	Units	Nylon6/Blow molding	
				GF20%, High viscosity	
				CM1056K48	
				>PA6-GF20<	
				Dry	2.5%water
Physical property					
Water Absorption	24hrs. in 23℃ water	ISO 62	%	1.2	
Water Absorption	23℃ in water	ISO 62	%	6.5	-
Density	23℃	ISO 1183	kg/m ³	1260	-
Mechanical property					
Tensile strength	-40℃	ISO 527-1,2	MPa	190	165
Tensile strength	23℃	ISO 527-1,2	MPa	115	70
Tensile strength	80℃	ISO 527-1,2	MPa	55	45
Elongation at Break	-40℃	ISO 527-1,2	%	2.5	3
Elongation at Break	23℃	ISO 527-1,2	%	3	9
Elongation at Break	80℃	ISO 527-1,2	%	4	5
Flexural Strength	-40℃	ISO 178	MPa	-	-
Flexural Strength	23℃	ISO 178	MPa	175	100
Flexural Strength	80℃	ISO 178	MPa	-	-
Flexural Modulus	-40℃	ISO 178	GPa	6	3.4
Flexural Modulus	23℃	ISO 178	GPa	5.2	2.6
Flexural Modulus	80℃	ISO 178	GPa	2.3	1
Rockwell Hardness	23℃	ISO 2039-2	R Scale	119	-
Taper Abrasion		ISO 9352	mg/1000times	-	-
Charpy Impact Strength (V-notched)	23℃	ISO 179	kJ/m ²	6.5	-
Charpy Impact Strength (Unnotched)	-40℃	ISO 179	kJ/m ²	11.5	27
Charpy Impact Strength (Unnotched)	23℃	ISO 179	kJ/m ²	-	-
Heat property					
Melting Point		DSC Method	℃	225	-
Coef of Linear Thermal Expansion		ISO 11359-2	×10 ⁻⁵ /℃	-	-
Heat Deflection Temp Low Load	0.45MPa	ISO 75-1,2	℃	214	-
Heat Deflection Temp High Load	1.80MPa	ISO 75-1,2	℃	184	-
Electrical property					
Volume Resistivity		IEC 60093	Ω · m	-	-
Dielectric Strength		IEC 60243-1	MV/m	-	-
Dielectric Constant	23℃、60% RH、50Hz	IEC 60250	-	-	-
Dielectric Constant	23℃、60% RH、1KHz	IEC 60250	-	-	-
IEC Tracking Index(CTI)		UL-746B	-	-	-
Arc resistance	Tungsten Electrode	UL-746A	sec.	-	-

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

