

Property	Test Condition	Test Method ISO	Units	Co-polymer Nylon/GF Reinforced
				Good Appearance, GF50%
				CM3501G50
				>PA-GF50<
				1.2%water
Physical property				
Water Absorption	24hrs. in 23℃ water	ISO62	%	0.3
Water Absorption	23℃ in water	ISO62	%	-
Density	23℃	ISO1183	kg/m ³	1590
Mechanical property				
Tensile strength	-40℃	ISO527-1,2	MPa	-
Tensile strength	23℃	ISO527-1,2	MPa	205
Tensile strength	80℃	ISO527-1,2	MPa	-
Elongation at Break	-40℃	ISO527-1,2	%	-
Elongation at Break	23℃	ISO527-1,2	%	3.2
Elongation at Break	80℃	ISO527-1,2	%	-
Flexural Strength	-40℃	ISO178	MPa	-
Flexural Strength	23℃	ISO178	MPa	315
Flexural Strength	80℃	ISO178	MPa	-
Flexural Modulus	-40℃	ISO178	GPa	-
Flexural Modulus	23℃	ISO178	GPa	14.2
Flexural Modulus	80℃	ISO178	GPa	-
Compressive Strength	-40℃	ISO604	MPa	-
Compressive Strength	23℃	ISO604	MPa	-
Compressive Strength	80℃	ISO604	MPa	-
Coefficient of friction (Without lubrication)	Vs metal	Suzuki Method	-	-
Shear Strength	23℃	ASTM D732	MPa	-
Rockwell Hardness	23℃	ISO2039-2	R Scale	-
Rockwell Hardness	80℃	ISO2039-2	R Scale	-
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	23.1
Charpy Impact Strength (Unnotched)	-40℃	ISO179	kJ/m ²	-
Charpy Impact Strength (Unnot				