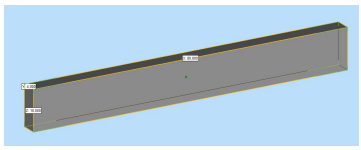
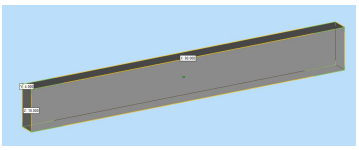
Filament Data Sheet

PLA

Revision Date:22/01/2026
Application: FDM
Version：01

RECOMMENDED PRINTING CONDITIONS	
Nozzle Temperature	210-250°C
Bed Temperature	20-60°C
Closure Chamber	Recommended open printing
Drying Setting	55°C for 6H

FLEXURAL TESTING SPECIMEN	TENSILE TESTING SPECIMEN	IMPACT TESTING SPECIMEN
ISO 178/T 9341	ISO 527,GB/T 1040	ISO 180,GB/T1043
		

PHYSICAL PROPERTIES				
Performance	**Condition**	**Starndards**	**Unit**	**Values**
Density	25°C	ISO 1183	g/cm³	1.229
Melt Flow Rate	220°C/2.16kg	ISO 1133	g/10min	11.4

MECHANICAL PROPERTIES				
Performance	Condition	Starndards	Unit	Values
TensileStrength （X-Y）	10*4mm sample	ISO 527-2	MPa	58.42
TensileStrength （Z）	10*4mm sample	ISO 527-2	MPa	21.33
Elongation at break（X-Y）	10*4mm sample	ISO 527-2	%	7.06
Elongation at break（Z）	10*4mm sample	ISO 527-2	%	3.11
Bending modulus(X-Y)	10*4mm sample	ISO178	MPa	2941.86
Bending modulus(Z)	10*4mm sample	ISO178	MPa	2334.23
Bending strength (X-Y)	10*4mm sample	ISO178	MPa	88.42
Bending strength (Z)	10*4mm sample	ISO178	MPa	37.31
Notched impact strength (X-Y)	10*4mm sample notched	ISO180	KJ/㎡	4.97
Notched impact strength (Z)	10*4mm sample notched	ISO180	KJ/㎡	2.31
Non-notched impact strength (X-Y)	10*4mm sample non notched	ISO180	KJ/㎡	19.21
Non-notched impact strength (Z)	10*4mm sample non notched	ISO180	KJ/㎡	6.60