

Technical Data Sheet 2026

ECO PLA+ Filament

Hi-speed PLA+Filament

PLA+Filament

PETG Filament

Hi-speed PETG Filament

ABS Filament

TPU Filament

Wood PLA Filament

Marble PLA Filament

Magic PLA Filament

Matt PLA Filament (Rainbow)

Silk PLA Filament (Dual & Tri & Rainbow)

Glass Fiber PLA Filament

Carbon Fiber PLA Filament

Light Weight PLA Filament

ASA Filament

Printing Setting

Model No.	Print Temperature (°C)	Bottom Plate Temperature (°C)	Printing Speed(mm/s)	Bottom Plate	Cooling Fan	
ECO PLA+ Filament	190-230	45-60	40-300	Glass/carbon fiber + solid glue or 3M blue masking Tapes	100%	
PLA+ Filament						
Matt PLA Filament (Rainbow)	200-230		40-250			Glass/carbon fiber + solid glue or High temperature tape
Silk PLA Filament (Dual & Tri & Rainbow)						
Marble PLA Filament						
Magic PLA Filament			40-200			
Wood PLA Filament						
Glass Fiber PLA Filament			40-100			
Carbon fiber PLA Filament						
TPU Filament	0-55		20-60			
PETG Filament	220-250	70-80	50-250	Glass/carbon fiber + solid glue or 3M blue masking Tapes		
Hi-speed PETG Filament	220-260					
Hi-speed PLA+ Filament	200-240	50-65	50-600			
Light Weight PLA Filament	190-270	45-65	20-80			
ABS Filament	240-270	90-110	40-100			
ASA Filament			40-120	0-50%		

Technical Specification

ECO PLA Filament & Hi-speed PLA+ Filament & PLA+ Filament & PETG Filament

	ECO PLA+ Filament	Hi-speed PLA+ Filament	PLA+ Filament	PETG Filament	Text Standard
Tensile strength (MPa):	62±10%	72 ± 10%	62±10%	45.99±10%	ASTM D638
Elongation at break (%):	25.71±10%	11.8±10%	21.5±10%	10.71±10%	ASTM D638
Flexural strength (MPa):	76±10%	90 ± 10%	76±10%	59±10%	ASTM D790
Flexural modulus (MPa):	1734.307±10 %	1915 ± 10%	1925 ± 10%	1080±10%	ASTM D790
Notched Impact strength (J/m)	43±10%	54 ± 10%	46 ± 10%	326±10%	ASTM D256
Shrinkage(%):	/	0.3-0.5	/	/	ASTM D2732
Heat deflection (HDT) at 0.455 MPa	55	53	54	64	ASTM D648
Density (g/cm ³):	1.23~1.25	1.23-1.31	1.23-1.25	1.23-1.31	GB/T22235
Melt mass-flow rate (MFR) (g/10min):	6.58g/10min (190°C,2.16Kg g)	10.68g/10min (190°C,2.16Kg)	5.5g/10min (190°C,2.16Kg)	9.72g/10min (230°C,2.16Kg)	ASTM D1238

ABS & TPU & Hi-speed PETG & ASA

	ABS Filament	TPU Filament	Hi-speed PETG Filament	ASA	Text Standard
Tensile strength (MPa):	41.59±10%	21.59±10%	59.04±10%	34.99±10%	ASTM D638
Elongation at break (%):	15.83±10%	≥600%	15.97±10%	22.13±10%	ASTM D638
Flexural strength (MPa):	53.86±10%	/	70.84±10%	45.17±10%	ASTM D790
Flexural modulus (MPa):	2192.50±10%	/	2038.70±10%	1938.94±10%	ASTM D790
Notched Impact strength (J/m)	73.37±10%	/	19.7±10%	88.33±10%	ASTM D256
Shrinkage(%):	/	/	/	/	ASTM D2732
Heat deflection (HDT) at 0.455 MPa	79	/	69	79	ASTM D648
Density (g/cm ³):	1.04~1.12	1.1-1.25	1.23~1.31	1.05~1.09	GB/T22235
Melt mass-flow rate (MFR) (g/10min):	25g/10min (220°C,10kg)	8.4g/10min (190°C,2.16kg)	24g/10min (230°C,2.16Kg)	28.16g/10min (220°C,10Kg)	ASTM D1238

Matt PLA & Silk PLA & Marble PLA & Magic PLA

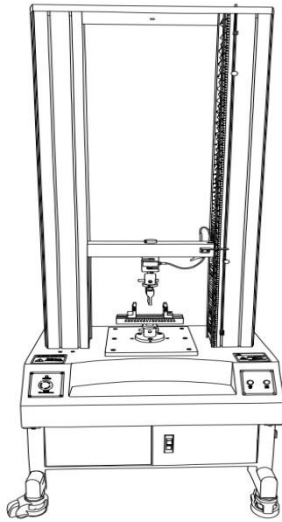
	Matt PLA Filament	Silk PLA Filament	Marble PLA Filament	Magic PLA Filament	Text Standard
Tensile strength (MPa):	38±10%	46±10%	41.867±10%	58±10%	ASTM D638
Elongation at break (%):	14.5±10%	11.8±10%	16.681±10%	12.7±10%	ASTM D638
Flexural strength (MPa):	45±10%	54±10%	54.825±10%	76±10%	ASTM D790
Flexural modulus (MPa):	2322±10%	2373±10%	2423.609±10%	3173±10%	ASTM D790
Notched Impact strength (J/m)	35±10%	21±10%	26±10%	29±10%	ASTM D256
Shrinkage(%):	0.2-0.4	0.2-0.4	0.3-0.5	0.2-0.4	ASTM D2732
Heat deflection (HDT) at 0.455 MPa	54	54	53	56	ASTM D648
Density (g/cm ³):	1.20~1.25	1.20~1.25	1.20~1.25	1.20~1.25	GB/T22235
Melt mass-flow rate (MFR) (g/10min):	8.8g/10min (190°C,2.16Kg)	10.8g/10min (190°C,2.16Kg)	3.5g/10min (190°C,2.16Kg)	5.6g/10min (190°C,2.16Kg)	ASTM D1238

Wood PLA & Glass Fiber PLA & Carbon Fiber PLA & Light Weight PLA

	Wood PLA Filament	Glass Fiber PLA Filament	Carbon Fiber PLA Filament	Light Weight PLA Filament	Text Standard
Tensile strength (MPa):	37±10%	37.781±10%	40±10%	22.214±10%	ASTM D638
Elongation at break (%):	13±10%	18.514±10%	10.4±10%	6.443±10%	ASTM D638
Flexural strength (MPa):	48±10%	45.655±10%	53±10%	29.633±10%	ASTM D790
Flexural modulus (MPa):	2376±10%	2348.326±10%	2478±10%	1909.258±10%	ASTM D790
Notched Impact strength (J/m)	23±10%	22.6±10%	34±10%	42.6±10%	ASTM D256
Shrinkage(%):	0.3-0.5	0.3-0.6	0.3-0.6	0.3-0.6	ASTM D2732
Heat deflection (HDT) at 0.455 MPa	53	57	56	56	ASTM D648
Density (g/cm ³):	1.20~1.25	1.20~1.25	1.20~1.25	1.20~1.25	GB/T22235
Melt mass-flow rate (MFR) (g/10min):	8.24g/10min (190°C,2.16Kg)	7.36g/10min (190°C,2.16Kg)	7g/10min (190°C,2.16Kg)	4.32g/10min (190°C,2.16Kg)	ASTM D1238

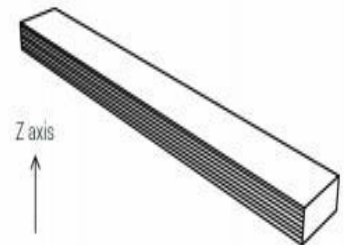
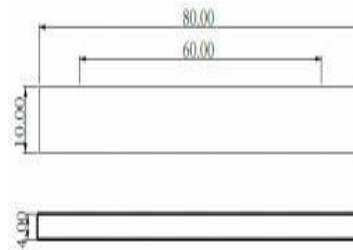
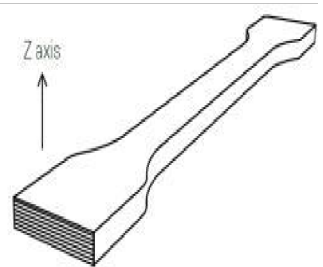
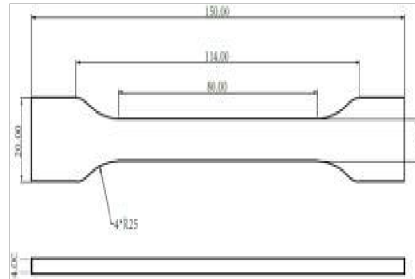
Introduction of Testing Machine

Computer-controlled Servo Tensile Testing Machine



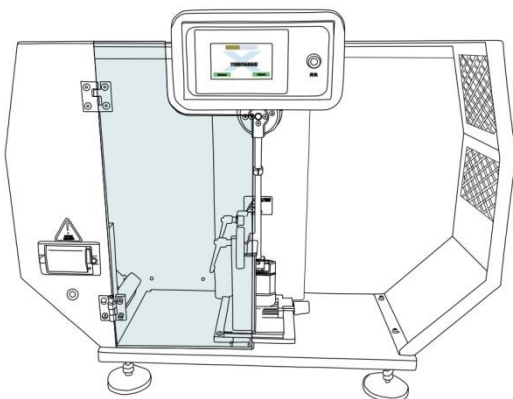
specimen ASTM D638

Tensile testing

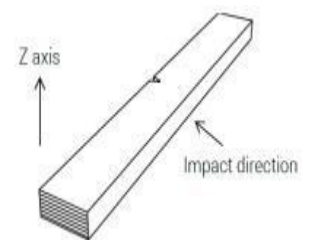
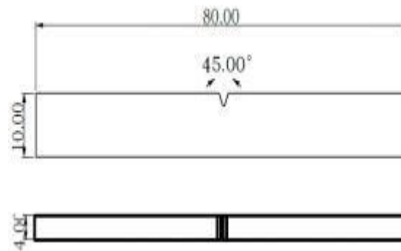


Flexural testing specimen ASTM D790

Digital IZOD Impact Tester



Impact testing specimen ASTM D256



Storage

1. The products shall be stored in a clean, cool, dry, ventilated, dark warehouse, free of chemicals, toxic and harmful substances and corrosive substances.
2. Keep away from the heat source.
3. It is strictly prohibited to stack the products in the open air, and the products are not allowed to be directly pressed.
4. Shelf life is 1 year and should be used as soon as possible after opening.

-----14th Apr, 2026 -----