TDS Rev 3.0

Technical Data Sheet: 3DXSTAT⊠ ESD-PLA 3D Printing Filament

Physical Properties	Standard	Unit	Typical Value
Density	ISO 1183	g/cc	1.26

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength, Break	ISO 527	MPa	55
Tensile Modulus	ISO 527	MPa	2560
Tensile Elongation, Break	ISO 527	%	10
Flexural Strength	ISO 178	MPa	95
Flexural Modulus	ISO 178	MPa	2980

Thermal Properties	Standard	Unit	Typical Value
Glass Transition Temperature (Tg)	DSC	⊠C	60
Deflection Temperature at 0.45 MPa (66psi)	ISO 75	⊠C	55

Electrical Property	Standard	Unit	Typical Value
Surface Resistance	ASTM D257	Ohm/sq	$>10^{7}$ - $10^{9}<$

Printed Specimen Conditions

Printer: Open Source FDM/FFF
Nozzle: 0.4mm
Layer Height: 0.25mm
Infill: 100%, +/- 45⊠