



TDS Rev 3.0

Technical Data Sheet: Firewire™ Flame Retardant PC/ABS 3D Filament

Physical Properties	Standard	Unit	Typical Value
Density	ISO 1183	g/cc	1.24

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength, Break	ISO 527	MPa	60
Tensile Modulus	ISO 527	MPa	2250
Tensile Elongation, Break	ISO 527	%	10
Flexural Strength	ISO 178	MPa	85
Flexural Modulus	ISO 178	MPa	2300

Thermal Properties	Standard	Unit	Typical Value
Glass Transition Temperature (Tg)	DSC	°C	137
Deflection Temperature at 0.45 MPa (66psi)	ISO 75	°C	125

Fire Testing*	Standard	Unit	Typical Value
Flamability Rating (*Base Resin)	UL 94	-	V-0 @1.5mm

Printed Specimen Conditions
Printer: Open Source FDM/FFF
Nozzle: 0.4mm
Layer Height: 0.25mm
Infill: 100%, +/- 45°
Extrusion Temp: 275°C
Bed Temp: 120°C
Specimen Orientation: XY Flat

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Disclaimer: The technical data contained on this data sheet is furnished without charge or obligation and accepted at the recipient's sole risk. This data should not be used to establish specifications limits or used alone as the basis of design. The data provided is not intended to substitute any testing that may be required to determine fitness for any specific use.