



3D Printing Filament

TECHNICAL DATA SHEET - PRO Series ESD-Safe ABS

Commercial name: MatterHackers PRO Series ESD-Safe ABS
Raw material: Acrylonitrile Butadiene Styrene (ABS)
Designation: 3D printing applications
Manufacturer: MatterHackers, Inc

PHYSICAL PROPERTIES	VALUE	TEST METHOD
Density:	1.09 g/cc	ISO 1183

MECHANICAL PROPERTIES

Tensile Strength (Break):	58 MPa	ISO 527
Tensile Modulus:	2130 MPa	ISO 527
Tensile Elongation (Break):	4%	ISO 527
Flexural Strength:	80 MPa	ISO 178
Flexural Modulus:	2275 MPa	ISO 178

THERMAL PROPERTIES

Glass Transition Temperature (Tg):	105°C	DSC
Heat Deflection Temp (0.45 MPa):	97°C	ISO 75

ELECTRICAL PROPERTIES

Surface Resistance:	$10^7 - 10^9 \Omega/\text{sq}$	ASTM D257
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