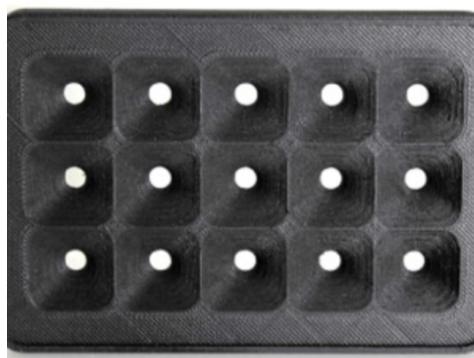
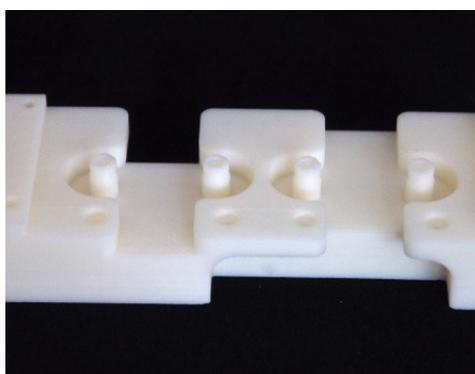


# ABS-ESD



High-performance 3D printing filament

Utilizes conductive additives and ABS

Excellent dimensional stability and high thermal resistance

## FILAMENT PROPERTIES

## MECHANICAL PROPERTIES

MECHANICAL PROPERTIES	Test Method	BUILD ORIENTATION		INFILL DENSITY
		XZ	XY	
Tensile Strength, Ultimate	ASTM D638	42 MPa	44 MPa	75%
Tensile Modulus	ASTM D638	2.13 GPa	2.14 GPa	
Tensile Elongation at Break	ASTM D638	3,8%	3,8%	

## PROTOTEK

SERVICE DI STAMPA 3D

Rapid Prototyping & Manufacturing

Via Gillio, 14 - 15048 Valenza (AL) - Tel. +39.0131.946449 - Fax +39.0131.928465

Email: info@prototek.it

## MECHANICAL PROPERTIES

FL EX UR AL	Flexural Strength	ASTM D790	80 MPa	80 MPa	75%
	Flexural Modulus	ASTM D790	2.27 GPa	2.27 GPa	

## THERMAL PROPERTIES

THERMAL PROPERTIES	TEST METHOD	VALUE	INFILL DENSITY
Glass Transition temperature [°C]	DSC	105°C	-
Heat Deflection (HDT) @66°psi	ISO75	102°C	-

This filament is ideal for applications that require consistent and reliable electrostatic dissipation (ESD) protection.

## OTHER PROPERTIES

OTHERS	TEST METHOD	VALUE	INFILL DENSITY
Density	ISO 1183	1,09 g/cm3	-
Surface Resistivity	IEC 60093	>10e6 - 10e9 <Ohm/sq	-

XZ= X or “on edge” XY= Y or “flat”



The performance characteristics of these materials may vary according to application, end use, or operating conditions.

Each user is responsible for determining that the material is safe, technically suitable, and lawful for the intended application, as well as for identifying the proper disposal (or recycling) method consistent with applicable environmental laws and regulations.

The information presented in this document are typical values intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values will vary with build conditions.