



## PRODUCT DESCRIPTION

YOUSU Conductive TPU 3D FILAMENT, is a Thermoplastic Polyurethane elastomer electrically conductive which makes it suitable for wearable devices and other flexible electronics applications. Its hardness is 95A.

Properties	Test Method	Units	Test Condition	Typical Value
<b>Physical Properties</b>				
<b>Density</b>	ASTM D792	g/cm <sup>3</sup>		1.35 ± 0.1
<b>Viscosity</b>	NDJ-1	Mpa		90-95
<b>Mechanical Properties</b>				
<b>Tensile Strength</b>	ASTM D412	Mpa		≥ 14.00
<b>Tensile Elongation</b>		%	break	≥ 400
<b>Electrical Resistivity surface</b>	ASTM D 257	OHM		< 1E1
<b>Electrical Resistivity</b>	Approx	K -cm		2-4

## Applications

YOUSU Conductive TPU 95A filament is a perfect material for flexible electronics applications

YOUSU Conductive TPU 3D filament is applied to most of the FDM 3D printer on the market. Our product has two kinds of diameters: 1.75mm and 2.85mm and show excellent stability and mobility in the molten state. Parts printed with our products have well thermal and mechanical properties. Before printing some parameters should be noticed.

Basic Parameters	
Product Code	YS-Conductive TPU
Material	TPU
Diameter	1.75/2.85 mm
Printing Temp	215-235°C
Print Bed Temp	45-60°C

All information provided and recommendations made herein are intended to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use in order to make their own final decision regarding suitability. We do not guarantee results, freedom from patent infringement, or suitability of resultant products for any suggested application with respect to the use of any formula or material described herein.