

## PRODUCT DESCRIPTION

YOUSU R-PLA 3D FILAMENT, we makes a big communal waste box for failed prints and takes it over when it ' s full. We will also use a simple hand for second sorting to make sure to keep the different types of plastic separated, with the filament types clearly marked! Recycling PLA waste plastic into usable filament requires two steps: shredding the plastic into small pieces, then melting and extruding it with a filament extruder.

Properties	Test Method	Units	Test Condition	Typical Value
<b>Physical Properties</b>				
Density	ASTM D792	g/cm <sup>3</sup>		1.24
Melt Flow Rate	ASTM D1238	g/10min	210°C, 2.16Kg	3-7
Melt Density		g/cm <sup>3</sup>	230°C	1.08
Melt Point		°C		155-170
<b>Mechanical Properties</b>				
Tensile Strength	ASTM D638	MPa	break	53
			yield	60
Tensile Modulus		GPa		3.5
Tensile Elongation		%		6
Notched IZOD Impact	ASTM D256	J/m		16

## Applications

YOUSU R-PLA 3D FILAMENT is specially designed for Recycling 3D printing.

## Processing Information

YOUSU R-PLA 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. Currently more with black filament can have recycled material. The white, transparent and grey also have some but not so much. The printing temperature will be a little lower than a normal one, 10 degrees lower. PLA Waste produced during our in-house production of PLA is recycled and used as a base for PLA Recycled. There are no further additives or pigments in the mix.

Basic Parameters	
Product Code	YS-R-PLA
Material	R-PLA
Diameter	1.75/2.85 mm
Printing Temp	180-200°C
Print Bed Temp	None needed (or 45°C if applicable)

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.