

PRODUCT DESCRIPTION

YOUSU R-PETG 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 PETG waste plastic into usable filament requires two steps: shredding the plastic into small pieces, then melting and extruding it with a filament extruder. Currently more with black filament can have recycled material. The white, red and grey also have some but not so much. The printing temperature will be a little lower than a normal one, 10 degrees lower. Waste produced during our in-house production of PETG is recycled and used as a base for PETG Recycled. There are no further additives or pigments in the mix.

Properties	Test Method	Unites	Test Condition	Typical Value
Physical Properties				
Density	ASTM D1505	g/cm³	23 °C	1.27
Rockwell Hardness	ASTM D785	R-scale		116
Water Absorption	ASTM D570	%	23 °C, 24hr	0.15
Mechanical Properties				
Tensile Strength	ASTM D638	MPa	50mm/min, yield	48-53
			50mm/min,break	26
%		50mm/min, yield	5.0	
		50mm/min,break	70-75	
Flexural Strength	ASTM D790	MPa	1.27mm/min	80
Flexural Modulus				2150
Impact Strength, IZOD notched	ASTM D256	J/m	23°C	90
Impact Resistance (Puncture) Energy Max. Load at 23°C	ASTM D3763	J	220m/min	33
Thermal Properties				
Vicat Softening Temperature	ASTM D1525 ⁶	°C	1KG Load	83
Heat Distortion Temperature	ASTM D648	°C	1.8 MPa	70
			0.45 MPa	74
Flammability				
Flammability	UL-94		1.6 mm	HB
			3.2 mm	V-2
Electrical Properties				
Dielectric Constant	ASTM D150		60 HZ	3.00
Volume Resistivity	ASTM D257			2.0E+17 ohms.cm
Dielectric Strength	ASTM D149	KV/mm		17

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.



Applications

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

Processing Information

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

Basic Parameters	
Product Code	YS-R-PETG
Material	R-PETG
Diameter	1.75/2.85 mm
Printing Temp	220±10℃
Print Bed Temp	50±10℃