

## PRODUCT DESCRIPTION

YOUSU TPU 80A 3D filament, a thermoplastic derived from reproducible resources, which is specially designed by yousu, limited for 3D FDM printer. As a popular product used in 3D printing, our product shows excellent mechanical and physical properties after printed as a part.

| Properties                   | Test Method | Unites            | Test Condition | Typical Value |
|------------------------------|-------------|-------------------|----------------|---------------|
| <b>Physical Properties</b>   |             |                   |                |               |
| <b>Density</b>               | ASTM D792   | g/cm <sup>3</sup> |                | 1.18          |
| <b>Mechanical Properties</b> |             |                   |                |               |
| <b>Tensile Strength</b>      | ASTM D412   | Mpa               | 100%           | 4.5           |
| <b>Tensile Strength</b>      |             | Mpa               | 300%           | 8             |
| <b>Tensile Strength</b>      |             | Mpa               | Break          | 27            |
| <b>Tensile Elongation</b>    |             | %                 | Break          | >500          |
| <b>Tear Strength</b>         | ASTM D624   | KN/m              |                | 78            |
| <b>Shore Hardness</b>        | ASTM D2240  | A                 |                | 80            |

## Processing Information

YOUSU TPU 80A 3D filament is applied to most of the FDM 3D printer on the market. Our product has two kinds of diameters: 1.75mm and 3.0mm 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     | TPU 80A     |
| Material         | TPU         |
| Diameter         | 1.75/3.0 mm |
| Printing Temp    | 190-240℃    |
| Print Bed Temp   | None needed |

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.