

## PRODUCT DESCRIPTION

YOUSU POM 3D FILAMENT, a thermoplastic derived from reproducible resources, which is specially designed by Yousu 3D Technology Co., Ltd., 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>				
Density	ISO 1183	g/cm <sup>3</sup>	23°C	1.14
Melt Flow Rate	ISO 1133	g/10min	220°C, 10kg	6
Linear Expansion Coefficient	ISO 11359			8.6×10 <sup>-5</sup>
Shrink Ratio		%		0.02
<b>Mechanical Properties</b>				
Tensile Strength	ISO 527-2	Mpa	23°C, yield	65.0
Flexural Strength	ISO 178	Mpa	23°C	84
Flexural modulus		Gpa		2.45
Tensile Elongation	ISO 527-2	%	23°C, break	35
Notched Izod Impact	ISO 179/1eA	KJ/m <sup>2</sup>		7
<b>Thermal Properties</b>				
Heat Deflection Temperature	75-2/A	°C	1.8 MPa Unannealed	96
<b>Flammability</b>				
Flammability	UL-94	%		HB
<b>Electrical Properties</b>				
Surface Resistivity	60093	ohms		1.0E+16
Volume Resistivity	60093	ohms.cm		1.0E+14
Dielectric Strength	60243-1	KV/mm		19

## Applications

YOUSU POM 3D FILAMENT is specially designed for 3D printing.

## Processing Information

Yousu POM 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.

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.



优塑  
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Guangzhou Yousu 3D Technology Co., Ltd

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Version: 2.0

### Basic Parameters

Product Code	YS-POM <sup>141</sup>
Material	POM
Diameter	1.75/3.0 mm
Printing Temp	220-240°C
Print Bed Temp	100-120°C

# TECHNICAL DATA SHEET

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