



Product Description

SKILCRAFT® 3D Filament PAPC is an excellent biomaterial technology for 3D printing applications where high strength and FDA compliancy is needed. Polyamide Polyolefin and Cellulose (PAPC) filament utilizes all FDA compliant ingredients for producing compounds with a high strength to weight ratio, having a high degree of flexibility with bio absorbable qualities. SKILCRAFT 3D PAPC has specific high-end applications in the bio-medical field that even the layman can relate to.

Features & Benefits

- Extremely tough
- No offensive odor
- Good chemical resistance
- Non-traditional plastic surface, and can be coated
- High strength to weight ratio, having a high degree of flexibility with bio absorbable qualities.
- Doesn't require tantalum for identification in an X ray.
- Doesn't heat up in an MRI which is significant for external fixation device.

Material Properties

PROPERTIES	PAPC
PRINTING TEMP.	220-225C
HEATED BED	REQUIRED
PRINT-BED TEMP.	95C
BED ADHESION	CUBE GLUE RECOMMENDED
3D PRINTER OVEN	80C FOR MAXIMUM EFFICIENCY
NOZZLE SIZE RECOMMENDED	0.5

Uses & Application

Used in bio-medical applications such as anatomical models and medical devices. Great for medical research and 3D Printing parts for Class I and Class II medical devices.

Recommended Printer Settings

- The nozzle size recommended for SKILCRAFT 3D PAPC are .5 with a processing temperature from 220 to 225C. If you use a .4 nozzle, higher heats may be necessary at 230C.
- PAPC filaments will have an inherent moisture due to the hydrophilic nature of the composition. It is recommended that the PAPC be kept in a sealed bag after use.

Packaging Options

- Filament Sizes Available: 1.75/2.88mm
- Spool Weight: 1 KG (standard) and 5 lbs. (on request).
- Filament spools are clear polycarbonate for easy viewing of remaining material and to enable warming of filament prior to printing reducing moisture.
- Filament comes with desiccants in the packaging and a resealable bag.

About NCSS and SKILCRAFT 3D Filaments

SKILCRAFT 3D Filaments are premium quality, high performance US-made 3D printing filaments provided by North Central Sight Services (NCSS) exclusively for the federal government. All assembly, packing and order fulfillment services are provided by NCSS. SKILCRAFT® is a registered trademark owned and licensed by National Industries for the Blind. Learn more at www.fed3Dsupply.com and find SKILCRAFT 3D Filaments on www.gsaadvantage.gov under NCSS GSA Contract #47QSM18D08P8.