



# PLACTIVE

Green

A unique material developed by Copper 3D in South America, PLACTIVE has powerful anti-microbial properties due to being infused with copper nanoparticles. Prints similar to PLA, and proven to kill 98% of microbes in less than 8 hours.

## Properties Summary

Hardness	<div style="width: 80%;"></div>
Surface Finish	<div style="width: 80%;"></div>
Cost	<div style="width: 60%;"></div>
Impact Resistance	<div style="width: 80%;"></div>

## DESIGN GUIDELINES

PLACTIVE builds best when there are no sharp corners or edges, so try to incorporate fillets and chamfers into your designs where possible.

Maximum Build Volume	200 mm x 175 mm x 180 mm
Min Wall Thickness	2 mm
Min Hole Diameter	2 mm
Minimum Part Clearance	1 mm
Minimum Debossed Detail	1.5 mm
Minimum Embossed Detail	1.5 mm
Maximum Unsupported Angle	45°

## MATERIAL DATA

Ultimate Tensile Strength	35 MPa
Tensile Modulus	1.8 GPa
Elongation at Failure	4.8%
Flexural Modulus	2.4 GPa
Maximum Safe Temperature	55°C

## SUBSCRIPTIONS/CREDITS INFORMATION

This material falls under the Premium FDM materials category for our subscription/credit pack customers.

**70g = 1 credit**

As this is an FDM material we generally recommend our Standard Finish unless the parts are to be used for particular aesthetic purposes.

[Standard finish \(FREE\)](#)

Still have questions? Contact us at [enquiries@printpool.co.uk](mailto:enquiries@printpool.co.uk) or give us a call on 01865 546430. We're always happy to help!