

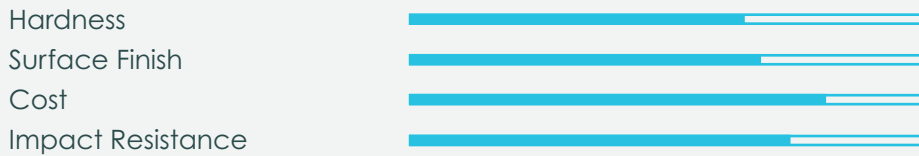


# ONYX

Black

A blend of chopped strand carbon fibre and nylon, Onyx sets the bar for dimensional stability, strength, chemical resistance and thermal properties. Use Onyx when high heat resistance is needed, alongside toughness.

## Properties Summary



## DESIGN GUIDELINES

Similar to other FDM materials, try to incorporate fillets and chamfers into your designs to relieve internal stresses.

Maximum Build Volume	300 mm x 130 mm x 150 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	30 MPa
Tensile Modulus	1.4 GPa
Elongation at Failure	3%
Flexural Modulus	3.6 GPa
Maximum Safe Temperature	140°C

## SUBSCRIPTIONS/CREDITS INFORMATION

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

**30g = 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!