

MATERIAL PROPERTIES (for comparative purposes only).

MATERIAL NAME	100% Carbon	Hybrid Carbon	Onyx*
Description	Maximum Carbon Fill	Top & bottom layers of Carbon	No Carbon
Tensile Strength (Mpa)	318	205	19
Elongation To Break	n/a	n/a	n/a
Flexural Strength (Mpa)	214	138	34
Flexural Modulus (Mpa)	2029	1305	1425
Shore Hardness	n/a	70D	36D
Impact Strength (kJ/m²)	382	245	157
Temperature (H.D.)	105ºC	105ºC	145ºC
Colour	Black	Black	Black
Min. Wall Thickness (mm)~	1mm	1mm	1mm
Min. Post Diameter (mm)~	2mm	2mm	2mm

• N.B. Not all processes & materials available across all sites

• Material data properties provided are for illustration purposes only and are variable according to geometry and the level of composite we are able to add.

• *Our Onyx offering is filled to a minimum of 37% material content. Parts are typically built with an internal honeycomb structure. Onyx is without any carbon filled content.

• ~Guideline information – further information available upon request from our projects team

Last Updated: Jan 2023