



## PC-ABS

### Polycarbonate Acrylonitrile Butadiene Styrene

PCABS is a premium high-heat 3D printing filament which combines the mechanical properties and high-heat resistance of PC with printability similar to that of ABS, and allows for the printing of functional prototypes and production parts with fine detail and excellent, slightly glossy surface quality.

#### Mechanical Properties\*

Type	Test Method	Imperial	Metric
Tensile Modulus	ASTM D638	275,571.7 psi	1900 MPa
Yield Point	ASTM D638	5,946.55 psi	41 MPa
Tensile Elongation at Yield	ASTM D638	6%	6%
Tensile Strength Ultimate	ASTM D638	9862.57 psi	68 MPa
Tensile Elongation at Break	ASTM D638	9%	9%

#### Thermal Properties

Type	Test Method	Imperial	Metric
VICAT Softening	ISO 306B50	208.4 °F	98 °C
Glass Transition (TG)	-	221 °F	105 °C
Degradation Temperature	-	644 °F	340 °F

\*test parts have been printed according to XZ orientation, using 100% infill, 0.2mm layer thickness

The information supplied is supplied as informative: user should use it as material selection tool and/or comparison with available materials.

Printed part performance may differ from published value, depending on part orientation, printing parameters & environmental conditions.

User must validate suitability of the printed part and its lawful to be used as desired: no warranty can be made (express or implied) to any use of GoProto materials.

We reserve the right to improve our polymer formulations and/or revise our technical data.

