



## ABS

### Polycarbonate Acrylonitrile Butadiene Styrene

ABS is an amorphous polymer with high mechanical and thermal properties which has made it an industry “go-to” material for a wide range of prototyping and serial production applications.

#### Mechanical Properties\*

Type	Test Method	Imperial	Metric
Tensile Modulus	ASTM D638	223,213 psi	1,539 MPa
Yield Point	ASTM D638	4,235.1 psi	29.2 MPa
Tensile Elongation at Yield	ASTM D638	2.6%	2.6%
Tensile Strength Ultimate	ASTM D638	3669.4 psi	25.3 MPa
Tensile Elongation at Break	ASTM D638	5.52%	5.52%

#### Thermal Properties

	Test Method	Imperial	Metric
VICAT Softening	ISO 306B50	215.6 °F	70 °C
Glass Transition (TG)	-	226.4 °F	75 °C
Degradation Temperature	-	554 °F	300 °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.

