

Technical Datasheet

ABS Performance

Article Number: 100506

Mechanical Properties

<i>Properties</i>	<i>Testmethod</i>	<i>Values</i>	<i>Unit</i>
Tensile Strength	ISO 527	≥35	MPa
Tensile Strength (max.)	ISO 527	1900	MPa
Tensile Strain	ISO 527	≥2	%
Charpy notched impact strength +23°C	ISO 179	>30	kJ/m ²

Processing Conditions

<i>Properties</i>	<i>Values</i>	<i>Unit</i>
Nozzle Temperature	230 - 250	°C
Print Bed Temperature	80 - 100	°C

Thermal Properties

<i>Properties</i>	<i>Testmethod</i>	<i>Values</i>	<i>Unit</i>
Heat deflection temperature (HDT, 0,45MPa)	ISO 75-2	70	°C
Maximum Temperature for dimensional stability		70 - 80	°C

Physcial Properties

<i>Properties</i>	<i>Testmethod</i>	<i>Values</i>	<i>Unit</i>
Density	ISO 1183	1,03	g/cm ³

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Notice:

ABS filament from innovatiQ is available in various colors with the diameter of 1.75 mm. It is a filament based on an acrylonitrile-butadiene-styrene copolymer, which is characterized by its high impact strength. The filament can be processed on almost all 3D printers, although the printing conditions may depend on the type of printer and the environment (e.g. the humidity).

Storage: *Store product in a cool, dry, well-ventilated place. Protect from light and heat. Keep away from sources of ignition and keep away from flammable or oxidizing substances. Keep away from mechanical stress and physical damage to the filament.*

Handling: *Keep product away from ignition sources. Handle hot and molten product with care, use suitable heat protection. After use Wash hands.*

The information in this document is given to the best of our knowledge according to our current state of knowledge. It is based only on measurements on random samples and represents only a technical description. Natural variations, also depending on the color, are possible. In the event of a change in the state of knowledge, the information may change without any additional notification. All sales by innovatiQ are made under standard sales conditions unless otherwise confirmed in a signed document.

The information is not suitable for specifications and does not release the user from testing the material for suitability for his purposes and processes. innovatiQ assumes no warranty or liability based on this information. In the event of a change in the state of knowledge, the information may change without additional notification.