

ABS-42 - universal material, characterized by durability and high mechanical strength. It is also a material easy to to post-process.ABS is used in production, especially in prototyping elements with higher rigidity.

HARDNESS	
ELASTICITY	
IMPACT STRENGTH	
TENSILE STRENGTH	

PHYSICAL PROPERTIES

	VALUE	UNIT	TEST METHOD
Density	1,04	g/cm^3	ASTM D792
Water Absorption	0,85	%	-



MECHANICAL PROPERTIES

	VALUE UNIT		TEST METHOD	
Young's modulus	2,5	GPa	-	
Elasticity	2	GPa	-	
Tensile Strength	520	kg/cm^2	ASTM D638	
Tensile Elongation	30	%	ASTM D638	
Flexural strength	800	kg/cm2	ASTM D790	
Izod impact strength 23°C	20	kg×cm/cm	ASTM D256	
Izod impact strength 30°C	8	kg×cm/cm	ASTM D256	
Rockwell Hardness	110	-	ASTM D785	

THERMAL PROPERTIES

	VALUE	UNIT	TEST METHOD
Heat Deflection Temperature 0,45 MPa	90	°C	ASTM D648
Heat Deflection Temperature 1,8 MPa	86	°C	
VICAT Softening Temperature	94	°C	ASTM D1525
Flammability class	HB	-	UL94

RECOMMENDED PRINTING PARAMETERS



Nozzle temerature

235 - 255°C

<u>{}}}}}</u>

Bed temperature

70 - 110°C



Heated chamber

65°C



Drying temperature

60°C



The information contained in this document, such as data, statements, representative values etc. is provided solely for the convenience of the customer. They do not constitute a guarantee as to the safety or properties of the material. The content of this document will have no binding effect, especially representative values that are presented for reference and are not minimum values that have a binding effect. Users must perform and verify all necessary tests and analyzes to confirm the safety and compliance of final products that have been created or changed using OMNI3D products. Data and values contained in this document are subject to change due to product quality improvement without prior notice