

ABS - 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	$\bullet \bullet \bullet \circ \circ \circ$
ELASTICITY	$\bullet \bullet \circ \circ \circ \circ$
IMPACT STRENGTH	$\bullet \bullet \bullet \bullet \circ \circ \circ$
TENSILE STRENGTH	$\bullet \bullet \bullet \circ \circ \circ$

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

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Bed temperature

70 – 110°C



Heated chamber

65°C



Drying temperature

60°C



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