TECHNICAL DATA SHEET

ABS-42

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

Bed temperature

70 – 110°C

Heated chamber

65°C

Drying temperature

60°C