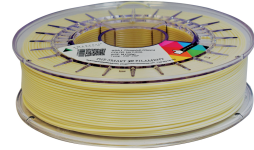


ASA

It is a material with an exceptional resistance to weathering. Unlike many plastic materials, the ASA maintains its color and impact resistance, even after long-time outdoor use in the long term.



	TYPICAL VALUE	UNITS	TEST METHOD		
PHYSICAL PROPERTIES					
Chemical Name	Acrylonitrile Styrene Acrylate				
Material Density	1.07	g/cm ³	ISO 1183		
MECHANICAL PROPERTIES					
Tensile Stress at Yield	47	MPa	ASTM D638 (50 mm/min)		
Flexural Strength	76	MPa	ASTM D790 (15 mm/min)		
Izod Impact Strength	156	J/m	ASTM D256		
Rockwell Hardness	103	R-Scale	ASTM D785		
Tensile Modulus	2.079	MPa	ASTM D638 (1 mm/min)		
THERMAL PROPERTIES					
Heat Deflection Temperature	87	°C	ASTM D648 (1,8 MPa)		
Vicat Softening Temperature	95	°C	ASTM D1525		
PRINTING PROPERTIES					
Print Temperature	240-260	°C			
Hot Pad	90-110	°C			
Fan Layer	OFF	%			
SIZE	NET W.	GROSS W.	DIAMETERS	COLOR	PACKAGING
M	750 g	975 g	1.75 mm/2.85 mm	Natural	SmartBag, security seal, desiccant bag

USE RECOMENDATIONS

USE A SUITABLE DEVICE FOR PRINTING

To achieve a good adhesion between layers and maintain good properties it is necessary to use a completely closed printer that reaches the recommended temperature. Please make sure that your device meets these features.



DISCLAIMER: The information provided in the data sheets is intended to be just a reference. It should not be used as design or quality control values. Actual values may differ significantly depending on the printing conditions. The final performance of the printed components does not only depend on the materials, also the design and printing conditions are important. Smart Materials assumes no responsibility for any damage, injury or loss produced by the use of its filaments in any particular application.