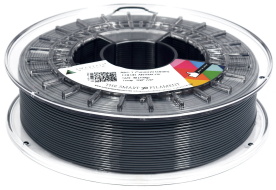
ABS
TECHNICAL DATA SHEET VERSION 1.1

SMARTFIL by smart materials 3D

ABS

This Filament can bear great temperatures, it is machineable and it can be diluted in acetone. One of the qualities of our ABS is its resistance, it is recyclable and easy to paint. This plastic can be used in multiple applications, like domestic objects, industrial pieces, automotive and much more.



Reciclable
Recyclable
Recyclable

Apto para contacto con alimentos
Food Approved
Aliments approuvés

	TIPICAL VALUE	UNITS	TEST METHOD
PHYSICAL PROPERTIES			
Chemical Name	Acrylonitrile Butadiene Styrene		
Material Density	1.04	g/cm^3	ISO 1183
MECHANICAL PROPERTIES			
Tensile Stress at break	45	MPa	ISO 527
Tensile elongation at break	65	MPa	ISO 178
Tensile Modulus	2300	MPa	ISO 527
Charpy Impact Strength 1eU	22	kJ/m^2	ISO 179/1eU
THERMAL PROPERTIES			
Heat Deflection Temperature	99	°C	ISO 75
Vicat Softering Temperature	105	°C	ISO 306
PRINTING PROPERTIES			
Print Temperature	230-250	°C	
Hot Pad	80-100	°C	
Fan Layer	OFF	%	

SIZE	NET W.	GROSS W.	DIAMETERS	COLOR	PACKAGING
M	750 g	975 g	1.75 mm/2.85 mm	Various colors	SmartBag, security seal, desiccant bag
L	1000 g	1256 g	1.75 mm/2.85 mm	Various colors	

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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.