MEDICAL

TECHNICAL DATA SHEET VERSION 1.0

SMARTFIL by smart materials 3D

MEDICAL

High quality filament specially designed for medical applications. This material has the UPS Class VI or ISO 10993-1 certification. This allow you to make components that can be in touch with the human body.

Reciclable
Recyclable
Recyclable

Biocompatible
Biocompatible
Biocompatible

	TIPICAL VALUE	UNITS	TEST METHOD
PHYSICAL PROPERTIES			
Chemical Name	Acrylonitrile Butadiene Styrene		
Material Density	1.05	g/cm^3	ISO 1183
MECHANICAL PROPERTIES			
Charpy Notched Impact Strength (23°)	124	kJ/m^2	ISO 179
Flexural Modulus	2600	MPa	ISO 178
Flexural Strength	75	MPa	ISO 178
Notched Izod Impact	15	kJ/m^2	ISO 180
Tensile Stress at Yield	36.5	MPa	ISO 527
Tensile Modulus	2550	MPa	ISO 527
THERMAL PROPERTIES			
Thermal deflection temperature	98	°C	ISO 75
Vicat softening temperature	101	°C	ISO 306
PRINTING PROPERTIES			
Print Temperature	230-250	°C	
Hot Pad	80-100	°C	
Fan Layer	OFF (Max 20)	%	

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