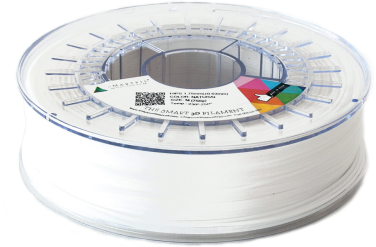


HIPS

High Impact Polystyrene, ideal for printing highly resistant parts with excellent mechanical properties. It has similar characteristics to ABS, it can be sanded and painted with acrylic paints. Ideal to be used as a support material, as it can be subsequently diluted in D'limonene.



Recyclable
Recyclable
Recyclable



Apto para contacto
con alimentos
Food Approved
Alimentos aprobados

	TYPICAL VALUE	UNITS	TEST METHOD
PHYSICAL PROPERTIES			
Chemical Name	High Impact Polystyrene		
Material Density	1.05	g/cm ³	ISO 1183
MECHANICAL PROPERTIES			
Flexural Modulus	1950	MPa	ISO 178
Flexural Stress	38	MPa	ISO 178
Charpy Notched Impact Strength (23°)	12	kJ/m ²	ISO 179
Notched Izod Impact	14	kJ/m ²	ISO 180
Tensile Modulus	1750	MPa	ISO 527
Tensile Stress at Yield (23°)	19.5	MPa	ISO 527
THERMAL PROPERTIES			
Heat Deflection Temperature	79	°C	ISO 75
Vicat Softening Temperature	100	°C	ISO 306
PRINTING PROPERTIES			
Print Temperature	225-245	°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, True Black	SmartBag, security seal, desiccant bag



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.