ABS ESD TECHNICAL DATA SHEET VERSION 1.1



ABS ESD ANTISTATIC

Is a filament designed to protect elements sensitive to electrostatic current discharges. The incorporation of conductive additives avoids the accumulation of static in the piece, acting as a protective element in electronic components very sensitive to this type of discharges. The same fact that does not load static, avoids attracting dust particles, so it is also indicated in those places where it is required to have a clean environment.





ELECTRICAL CLASSIFICATION OF MATERIALS



			TIPICAL VAL	UE	UNITS	TEST METHOD
PHYSICAL PRO	OPERTIES					
Chemical Name Material Density		Acrylonitrile Styrene Butadiene 1.13		g/cm ³	ISO 1183	
MECHANICAL	PROPERTIES					
Charpy Imp Tensile elon Tensile Moo Tensile Stre	act Strength 1eU ngation at break dulus ess at break		36 2.7 2460 29		kJ/m ² % MPa MPa	ISO 179/1eU ISO 527 ISO 527 ISO 527
THERMAL PRO	OPERTIES					
Heat Deflection Temperature (HDT-A) Vicat Softering Temperature B50			74 91		°C °C	ISO 75-1/2 ISO 306
ELECTRICAL F	PROPERTIES					
Surface resistance max.* * Values obtained under tests on specimens obtained by injection			1000		Ohm	IEC 60093
PRINTING PRO	OPERTIES					
Print Tempe Hot Pad Fan Layer	erature		265-285 100-110 OFF		°C °C %	
SIZE	NET W.	GROSS W.		DIAMETERS	COLOR	PACKAGING
Μ	750 g	975 g		1.75 mm/2.85 mm	Natural	SmartBag, security seal, desiccant bag

ABS ESD TECHNICAL DATA SHEET VERSION 1.1 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.

KEEP THE EXTRUDER IN GOOD CONDITION

Due to the composition of the material the cleaning of the nozzle can be complicated. To carry out this cleaning it is recommended to put the printer at the same temperature print the material and use Smartfil Clean to clean it. The use of an exclusive nozzle for this material facilitates this task.



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.