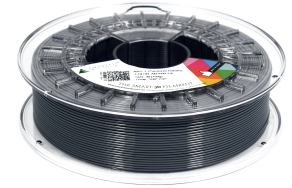


ABS

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

| | TYPICAL 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 Softening 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, |
| L | 1000 g | 1256 g | 1.75 mm/2.85 mm | Various colors | 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.