

PrintaMent HIPS

DATASHEET

Description

HIPS is an easy to print, High Impact Polystyrene filament with multifunctional properties. HIPS is an excellent support material in combination with ABS, because it dissolves in D'limonene and ABS remains unaffected. HIPS is very suitable for detailed prints, but also for large objects because the material shows very limited warping. Furthermore HIPS is very light and durable, has good interlayer bonding, can be glued easily and the colours result in a smooth matt surface of the 3D printed objects. High Impact Polystyrene is therefore widely used in model building.

Features

- High impact-resistance
- Can be glued easily
- For matt, detailed, complex or large prints
- Light and durable
- Low warping

Colors

white

Additional Info

Recommended temperature for heated bed is $\pm 65-110^{\circ}\text{C}$. HIPS can be used on all common desktop FDM or FFF technology 3D printers. Storage: Cool and dry ($15-25^{\circ}\text{C}$)

and away from UV light. This enhances the shelf life significantly.

Technical Data

Dimensions

Size	Tolerance	Roundness
$\varnothing 1,75\text{mm}$	$\pm 0,05\text{mm}$	>95%
$\varnothing 2,85\text{mm}$	$\pm 0,10\text{mm}$	>95%

Physical Properties

Description	Typical Value
Specific gravity	1,04 g/cc
MFR 200 °C/5kg	3,4cm/310min
Tensile stress	22 Mpa
Elong. at break (MD)	50%
Tensile modulus	1550 Mpa
Impact strength Izod method 23 °C	15 KJ/m ²

Thermal Properties

Size	Roundness
Printing temp.	220-270 °C
Melting temp.	220 °C \pm 40 °C
vicat softening temp.	$\pm 89^{\circ}\text{C}$