



HP 3D Filament HIPS White

HP Industrial Filament (IF) 3D Printer 600 High Temperature (HT) Solution



Material overview

HP 3D Filament HIPS White is a support material designed for additive manufacturing for FFF technology. It is usually used as support for components manufactured with ABS, where HIPS supports are breakaway.

Typical use cases

- Suited for:
- Breakaway support structures for ABS printing workflows.
 - Functional prototyping applications requiring reduced processing shrinkage compared to ABS.
 - Lightweight parts with a matte surface appearance.

Physical properties¹

	Conditions	Testing method	Typical value
Density	21.5 °C	ISO 1183	1.05 g/cm³



Mechanical properties¹

	Conditions	Testing method	Typical value
Tensile stress at yield	23 °C	ISO 527	16 MPa
Tensile stress at break	23 °C	ISO 527	16 MPa
Tensile strain at yield	23 °C	ISO 527	1.5 %
Tensile strain at break	23 °C	ISO 527	50 %
Flexural modulus	23 °C	ISO 178	2000 MPa
Flexural strength	23 °C	ISO 178	50 MPa
Charpy impact strength (unnotched)	23 °C	ISO 179	7 kJ/m ²
Notched Izod impact	23 °C	ISO 180	90 J/m
Rockwell hardness	—	ISO 2039	55

Flow properties¹

	Conditions	Typical value
Melt flow rate (MFR)	200 °C / 5 kg	12 g/10 min

Thermal properties¹

	Testing method	Typical value
Vicat softening temperature	ISO 306	87 °C
Heat deflection temperature	ISO 75	88 °C

Flammability¹

	Standard	Rating
Flammability class	UL 94	HB

Material specifications¹

	Supply weight	Filament diameter
HP 3D Filament HIPS White	1 kg	1.75 mm

Process compatibility¹

Materials compatible	Module compatible
HP 3D Filament ABS	HP IF 3D Printer 280 Module

Safety Data Sheet (SDS)*

A general Safety Data Sheet covering HP 3D printing materials is available here: <https://www.hp3Dfilaments.com>

This document provides guidance on safe handling, storage, and disposal. For material-specific questions, please contact your HP AM representative.

1. Typical values provided by Filament Provider. These results have not been validated on the HP Industrial Filament (IF) 3D Printer 600 HT Solution. Values are indicative; actual results may vary depending on print profile and process conditions. Contact HP to develop customized print profiles optimized for your application.

