

TECHNICAL DATA SHEET

ABSpro Flame Retardant

Date of issue: 16-1-2020

Date of update: 23-8-2024

Product specifications

ABSpro Flame Retardant is a PC-ABS 3D printer filament that meets the UL 94 V-0 standard. It 3D prints strong and self-extinguishing parts with superb interlayer bonding and high dimensional accuracy.

Flammability rating: UL94 V0

Important key features

Self-extinguishing flammability properties

Engineered to meet UL 94 V-0 standards

Halogen free

Suitable applications

Automotive

Aviation & Heavy industry

Electronic applications

Recommended pretreatment

Drying

Recommended

50 - 60 °C

12 h

Print with

Enclosure Yes

Dry box No

Recommended print settings regular speed

Print speed 25 - 300 mm/s

Nozzle temperature 240 - 265 °C

Bed temperature 100 - 110 °C

Fan speed 0 - 50 %

Recommended print settings high speed

ABSpro Flame Retardant is high speed compatible. Our recommended settings will be added once available. Please take note that the nozzle temperature and fan speed need to be raised when printing at high speed.

Material properties	Typical value	Unit of Measure	Test method	Test condition
Density				
Specific gravity	1,17	g/cm ³	ISO 1183	
Melt flow rate				
Mechanical properties				
Impact strength	35	kJ/m ²	ISO 180-4A	Izod notched 23°C
Tensile strength at yield	60	MPa	ISO 527-2/50	
Tensile strength at break				
Tensile modulus	2850	MPa	ISO 527-2/1	
Elongation at yield				
Elongation at break				
Flexural strength	110	MPa	ISO 178	
Flexural modulus				
Rockwell hardness				
Thermal properties				
Melting temperature				
Heat deflection temperature	90	°C	ISO 75-2A	HDT A
Vicat softening temperature	104	°C	ISO 306	
Glass transition temperature				

Product export information

HS code

39169090

Description

Monofilament for 3D printing

Origin

European Union

Disclaimer

The product- and technical data provided in this datasheet is correct to the best of FormFutura BV's knowledge and are intended for reference and comparison purposes only. Actual values may vary according to printing conditions, model complexity, environmental conditions, etcetera. Typical values are indicative only and are not to be construed as being binding specifications. All other information supplied, including that herein, is considered accurate but is furnished upon the express condition that the customer shall make its own assessment to determine a product's suitability for a particular purpose. We make no warranty, express or implied, including regarding any information supplied or the data upon which it is based or the results to be obtained from the use of such products or information, or concerning product, whether of satisfactory quality, merchantability, fitness for any particular purpose or otherwise, or with respect to intellectual property infringement as a result of use of information or products, and none shall be implied.

