TECHNICAL DATA SHEET

TitanX

SD PRINTING MATERIALS

Date of issue: 16-1-2020 **Date of update:** 23-8-2024

Product specifications

TitanX is a modified ABS-based 3D printer filament with greatly improved mechanical properties and printability. TitanX is the next generation ABS that 3D prints with high precision and zero warping.

Flammability rating: UL94 HB

Important key features

>65% more impact resistant than regular ABS Minimal warping, excellent interlayer adhesion, and seamless build plate adhesion

Precise 3D printing with remarkable fine detail

Suitable applications

Functional prototyping Fit testing

Engineering parts

Recommended pretreatment

Drying Recommended

45 - 60 °C 12 h

Print with

Enclosure Yes
Dry box No

Recommended print settings regular speed

Print speed 60 - 80 mm/s Nozzle temperature 245 - 270 °C Bed temperature 100 - 110 °C Fan speed 0 - 50 %

Material properties Density	Typical value	Unit of Measure	Test method	Test condition
Specific gravity	1,05	g/cm3	ASTM D792	
Melt flow rate	21	g/10min	ASTM D1238	220°C/10kg
Mechanical properties				
Impact strenght	33	kgcm/cm	ASTM D256	Izod notched 23°C
Tensile strenght at yield	460	kg/cm2	ASTM D638	
Tensile strenght at break				
Tensile modulus				
Elongation at yield				
Elongation at break	10	%	ASTM D638	
Flexural strenght	740	kg/cm2	ASTM D790	
Flexural modulus	25000	MPa	ASTM D790	
Rockwell hardness				
Thermal properties				
Melting temperature				
Heat deflection temperature	85	°C	ASTM D648	HDT A
Vicat softening temperature	93	°C	ASTM D1525	

Product export information

Glass transition temperature

HS code	Description	Origin
39169090	Monofilament for 3D printing	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.

