

OINFIX 3D Printing Filaments











Infix 3D Printing Filaments

Infix 3D Printing Filaments are part of the Infix Materials range of products, which focuses on development of premium production materials, mainly for additive manufacturing.

Our filaments are developed in-house and are produced in ISO 9001 certified facilities where we have full control over specifications, production chain, and quality control.

TPU Premium95A Overview

TPU (Thermoplastic Polyurethane) is a great choice for applications where material flexibility, elasticity, and resilience are desirable.

Printing difficulty, low printing speeds and being less suitable for most automated filament systems, TPU is not an everyday choice of materials for FDM 3D printing.

Other qualities of TPU filaments include chemical resistance, weather resistance (especially in low temperature), low warpage and high resilience. It has many potential uses in vibration dampening applications, mechanical impact protection applications, outdoor applications and high mechanical wear applications.

With a shore of 95A Infix TPU Premium95A filament provides flexibility without compromising durability and has good impact and tear resistance.

Specialized formulation allows Infix TPU Premium95A to be printed at speeds of up to 3x higher than regular TPU with reduced stringing.









3x faster printing compared to regular TPU





not beginner-friendly



hygroscopic



not suitable for AMS





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Material Properties

Category	Property	Typical Value	Testing Method
PHYSICAL PROPERTIES	Material Density	1.20 g/cm3	ASTM D 792
MECHANICAL PROPERTIES	Tensile Strength	45 MPa	ASTM D 412
	Hardness	95A	ASTM D 2240
	Tear Strength	140N/mm	ASTM D 624
	Izod Impact Strength	34.4 KJ/m2	ISO 180
	Elongation at Break	500%	ASTM D 412
	Bending Strength	4.3 MPa	ISO 178
	Flexural Modulus	78.7 MPa	ISO 178

Operating Conditions

Category	Parameter	Reference Value		
	Nozzle Temperature	230-240°C		
PRINT SETTINGS	Bed Temperature	0-40°C		
	Active Cooling Fan	NO (max 20%)		
ENCLOSURE REQUIREMENT	Generally not required (check	Generally not required (check your printer requirements)		
DRYING REQUIREMENT	YES, 6-8 hours at 60°C	YES, 6-8 hours at 60°C		

Storage Conditions

Parameter	Reference Value	
Temperature	15-25°C	
Humidity	≤20% RH	
Avoid direct UV light. Materials oxidation may be accelerated and colors can fade.		

Infix PLA+ 3D printing filament can be used with any desktop or industrial FDM/FFF 3d printer with a heated bed that is capable of generating the required operating conditions and is designed to operate within the specifications of the filament models selected.

3D printer configurations and settings are available on our website: www.infix.global/3d-printing

For additional technical support, you can contact us at: filament-support@infix.global

Disclaimer

The information on the datasheet is accurate to the best of Inflix Global Limited knowledge. This document should be used as reference only. Your results may differ depending on your specific setup and equipment. You are encouraged to perform specific tests for any application that requires engineering around specifications.

Inflix Global Limited will not be liable for any damage, loss or injury as a result of using Infix 3D Printing Filaments in a particular project.







