

# Technical datasheet

## colorFabb TPU95A

colorFabb

Date of issue: February 1<sup>st</sup>, 2024  
Version: v1.0

### Description

Discover colorFabb's TPU 95A filament – a versatile and cost-effective addition to any 3D printing setup. With exceptional semi-flexibility and printability, this filament offers reliability across various projects. While ensuring optimal results requires attention to printing settings and bed adhesion, its value proposition remains unmatched. Elevate your 3D printing capabilities affordably with colorFabb's TPU 95A filament.

### Typical Properties

#### Mechanical Properties – 3D Printed

	Method	Value	Unit
Youngs Modulus	Tensile, ISO 527-1A	65	MPa
Tensile Strength	Tensile, ISO 527-1A	17	MPa
Elongation at break	Tensile, ISO 527-1A	265	%
Flexural Modulus	Flexural, ISO 178	54	MPa
Flexural Strength	Flexural, ISO 178	2,9	MPa
Impact Strength	Charpy Notch, ISO 179	78	kJ/m <sup>2</sup>
Shore Hardness	Shore A	90-95	

#### Mechanical Properties – Injection Molded\*

	Method	Value	Unit
Youngs Modulus	ASTM D-412	N/A	MPa
Tensile Strength	ASTM D-412	32	MPa
Elongation at break	ASTM D-412	380	%
Flexural Modulus	Flexural, ISO 178	N/A	MPa
Flexural Strength	Flexural, ISO 178	N/A	MPa
Charpy Impact Strength	Charpy Notch, ISO 179	N/A	kJ/m <sup>2</sup>
Specific Gravity	ASTM D-2240	1,21	g/cm <sup>3</sup>
Shore Hardness	Shore A	98	

#### Thermal Properties\*

	Method	Value	Unit
Glass Transition Temp.	DSC, ISO 11357	-20	°C
Melting Temp.	DSC, ISO 11357	200	°C
Decomposition Temp.	TGA, ISO 11358	N/A	°C
Heat Deflection Temp.	HDT-B, ISO 75	N/A	°C
Melt Flow Index	MFI, (210°C/2.16 kg), ISO 1133-A	N/A	g/10min
Melt Flow Index	MFI, (190°C/1,16 kg), ISO 1133-A	N/A	g/10 min

\*These results are obtained from the information provided by the supplier of the raw material

colorFabb B.V.  
Bremweg 7  
5951 DK Belfeld  
The Netherlands

T +31 (0)77 – 4664015  
F +31 (0)77 – 3971414  
E sales@colorfabb.com  
I colorfabb.com

KvK nr: 53498607  
VAT nr: NL850902770B01  
IBAN:  
NL54RABO0151849188  
BIC: RABONL2U

# Technical datasheet

## colorFabb TPU95A

color**Fabb**

Date of issue: February 1<sup>st</sup>, 2024  
Version: v1.0

### Filament Specifications

	<i>Unit</i>		
Diameter	mm	1.75	2.85
Max. roundness deviation	mm	± 0.05	± 0.1
Net. Filament weight	g		

### Guideline for print settings

	<i>Unit</i>	
Nozzle Temp.	°C	220-230
Bed Temp.	°C	30-40
Bed / surface modification	-	-
Active cooling fan	%	25-50
Print Speed	mm/s	30-40
Max. Volumetric speed	mm <sup>3</sup> /s	3.2

### Notes

The reported properties are an average of a batch of 3D specimens.

The specimens have been printed in XY plane, using 0,2mm layer height, 100% infill, 0,4 mm nozzle, 220°C nozzle temperature and 40°C bed temperature.

### Disclaimer

The product- and technical information provided in this datasheet is correct to the best of our knowledge. The information given is provided as a guidance for good use, handling and processing, and is not to be considered as a quality specification. The information only relates to the specific product and the material properties.