

Technical Data Sheet



Essentium Ultrafuse TPU 80A

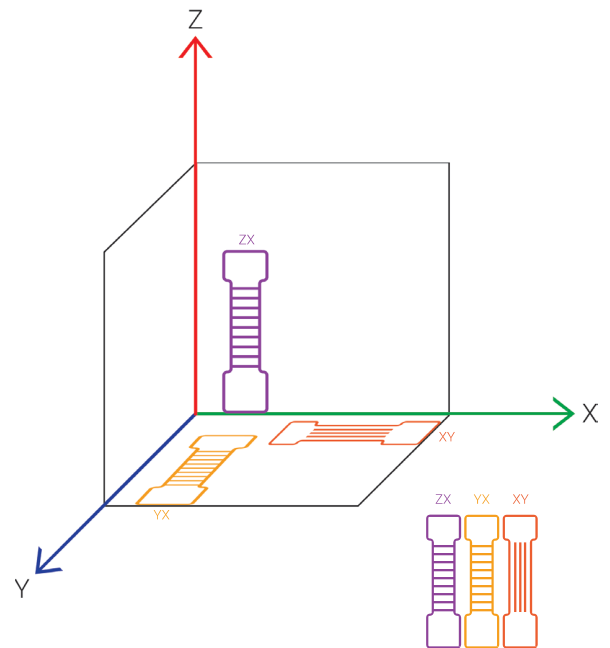
Description:

Essentium Ultrafuse TPU 80A is the most flexible filament currently available for 3D printing that is able to print on any open-platform. It is the perfect filament for applications that require toughness and flexibility to the max. No other materials on the market can match the printability of this extremely flexible filament.

Metric	Method	3D Printing Properties ¹		
		XY	YX	ZX
Tensile Strength, MPa	ASTM D412	22	18	17
Strain at Break, %	ASTM D412	640	517	471
Stress at 100%, MPa	ASTM D412	8	7	7
Stress at 300%, MPa	ASTM D412	13	12	11

Metric	Method	Properties
Shore Hardness, A	ASTM D2240	80
Specific Gravity	ASTM D792	1.11

Recommended Print Settings:	
Extrusion Temperature, °C	233 - 240
Bed Temperature, °C	60 - 80
Enclosure Temperature, °C	Room Temperature
Print Speed, mm/s	18-25



Notes:

¹ Printed on Ultimaker 3. Nozzle Temp: 240 C. Layer Height: .2mm
Speed: 25mm/s

² Properties taken from mfr. TDS

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