

Forward AM Ultrasint®TPU01 UL94 blue card.

Plastics for Additive Manufacturing

Guide Information

BASF 3D Printing Solutions GmbH

Speyerer Str. 4, Heidelberg 69115 DE

Ultrasint TPU01(#)(R80)

Thermoplastic Polyurethane (TPU), furnished as powder

Process Category: Powder Bed Fusion

☒ View Blue Card Format

E506048

Color	Min. Thk (mm)	Flame Class	HWI	HAI	GWIT	GWFI	RTI Elec	RTI Imp	RTI Str
GY	0.75	-	-	-	700	675	50	50	50
	1.0	HB	-	-	675	650	50	50	50
	1.5	HB	-	-	675	650	50	50	50
	3.0	HB	-	-	675	650	50	50	50

Comparative Tracking Index (CTI): 0

Dielectric Strength (kV/mm): 4.38

High-Voltage Arc Tracking Rate (HVTR): -

IEC Comparative Tracking Index (Volts Max): -

IEC Ball Pressure (°C): -

ISO Tensile Strength (MPa): -

ISO Tensile Impact (kJ/m²): -

Inclined Plane Tracking (IPT) kV: -

Volume Resistivity (10⁸ ohm-cm): 10

High Volt, Low Current Arc Resis (D495): -

ISO Charpy Impact (kJ/m²): -

ISO Heat Deflection @1.80 MPa (°C): -

ISO Flexural Strength (MPa): -

ISO Izod Impact (kJ/m²): -

Process Category: Powder Bed Fusion

Printing Process Designation Number: 1

Build Plane: Horizontal & Vertical

Layer Thickness (µm): 100

Hatch Spacing (mm): -

Post Processing Method: Bead blasting: Glass beads, 300-400µm, with 4-6 bars Air Pressure.

For use with UL Listed printer: HP Jet Fusion 5200 3D Printer, HP Jet Fusion 5210 3D Printer, HP Jet Fusion 5210 pro 3D Printer

Printer Preset: balanced

Laser Power (Watts): -

Scan Speed (m/s): -

Scan Strategy: -

Limited properties and ratings assigned to samples produced by the Additive Manufacturing technique representing a specific set of printing parameters and build strategy. Other print parameters and build strategies may result in significantly different results.

(#) - For use with Fusing and detailing agents HP 3D600, HP 3D700 or HP 3D710.

(R80) - Material is approved for use with Reclaimed powder of 80%

IEC/ISO small-scale test data does not pertain to building materials, furnishings and related contents. IEC/ISO small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

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