

Forward AM Ultrasint® TPU01 UL94 blue card.

Plastics for Additive Manufacturing E506048
 Guide Information Process Category: Powder Bed Fusion View Blue Card Format

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Ultrasint TPU01(#)(R80)
 Thermoplastic Polyurethane (TPU), furnished as powder

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 (10⁴ 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:

Build Plane: Horizontal & Vertical
 Laser Power (Watts): -
 Layer Thickness (µm): 100
 Scan Speed (m/s): -
 Hatch Spacing (mm): -
 Scan Strategy: -
 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

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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