

HP Inc

1501 Page Mill Rd, Palo Alto CA 94304

HP 3D HR PA12(#)

Polyamide 12 (PA12), furnished as powder for use with Multi Jet Fusion Technologies

Flammability Properties

Property	Method	Color	Min. Thk(mm)	Class
Flammability	ANSI/UL 94, IEC 60695-11-10, -20	BK	0.75	HB75
			1.5	HB75
			3.0	HB40

Electrical Properties

Property	Method	Value
Dielectric Strength	ASTM D149	2.8 KV/mm
Volume Resistivity	ASTM D257	14 10 ^x ohm-cm
Comparative Tracking Index	ASTM D3638	0 PLC ⁺

Electrical Ignition Properties

Property	Method	Color	Min. Thk(mm)	Value
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	BK	0.75	800°C
			1.5	725°C
			3.0	725°C
Glow-Wire Flammability (GWF1)	IEC 60695-2-12	BK	0.75	775°C
			1.5	700°C
			3.0	700°C

Thermal Properties

Property	Method	Min. Thk(mm)	Value
Relative Thermal Index - Electrical Strength	ANSI/UL 746B	0.75	65°C
		1.5	65°C
		3.0	65°C
Relative Thermal Index - Mechanical Impact	ANSI/UL 746B	0.75	65°C
		1.5	65°C
		3.0	65°C
Relative Thermal Index - Mechanical Strength	ANSI/UL 746B	0.75	65°C
		1.5	65°C
		3.0	65°C

Process Category: Powder Bed Fusion

Printing Process Designation Number:

Processing Parameter	Value
Build Plane	Horizontal
Post Processing Method	Bead blasting: Glass beads, 70-150 µm or Ceramics beads, 150-250 µm with 3-5 bars Air Pressure. For 5-10 sec each 100cm2 with 15 cm distance to part.
For use with Printer:	HP Jet Fusion 3D 4200 Printer, HP Jet Fusion 3D 4210 Printer. (HP Printing and Computing Solutions S L U - E165854)
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.

+ PLC = Performance Level Category

- For use with Fusing and Detailing agents HP 3D600, HP 3D700 and HP 3D710

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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