

**EOS GmbH Electro Optical Systems**

Robert-Stirling-Ring 1, Krailling 82152 DE

**PA 2210 FR**

Process Category: Powder Bed Fusion

Polyamide 12 (PA12), furnished as powder

Color	Min. Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
WT	0.75	HB	0	0	65	65	65
	3.0	V-0	0	0	65	65	65

Comparative Tracking Index (CTI): 1

Dielectric Strength (kV/mm): -

High-Voltage Arc Tracking Rate (HVTR): -

Dimensional Change (%): -

Inclined Plane Tracking (IPT) kV: -

Volume Resistivity (10<sup>x</sup> ohm-cm): -Surface Resistivity (10<sup>x</sup> ohms/square): -

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

Processing Parameters: (Printer Preset: PA2210FR\_150\_0xx / PA2210FR\_150\_0xx, PA2210FR\_150\_1xx)

Build Plane: Horizontal &amp; Vertical

Layer Thickness (µm): 150

Hatch Spacing (mm): -

Post Processing Method: Glass media blaster with a bead size of 70 to 110 µm, shot blasting pressure 4 bar.

For use with printer: EOS P 396 / EOS P 770

Laser Power (Watts): Preset

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.

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.

Report Date: 2018-11-27

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**IEC and ISO Test Methods**

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.75	HB, HB75 (WT)
			3.0	V-0 (WT)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	°C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	°C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC AC Dielectric Strength (AC DS)	IEC 60243-1	kV/mm	-	-
IEC DC Dielectric Strength (DC DS)	IEC 60243-2	kV/mm	-	-
IEC Volume Resistivity (VR)	IEC 62631-3-1	10 <sup>x</sup> ohm-m	-	-
IEC Surface Resistivity (SR)	IEC 62631-3-2	10 <sup>x</sup> ohms	-	-
IEC Inclined Plane Tracking (IPT)	IEC 60587	kV	-	-
IEC Ball Pressure	IEC 60695-10-2	°C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	°C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m <sup>2</sup>	-	-
ISO Izod Impact	ISO 180	kJ/m <sup>2</sup>	-	-
ISO Charpy Impact	ISO 179-1	kJ/m <sup>2</sup>	-	-