

**KIMYA ABS-ESD NATURAL**

ABS

ARMOR

**Product Texts**

Printing direction	XY
Printing speed	40 mm/s
Infill	100%-rectilinear
Infill angle	45°/-45°
Extrusion temperature	260°C
Bed temperature	100°C

**Processing/Physical Characteristics**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	17.5	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

**Mechanical properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Shore D hardness	66.7	-	ISO 7619-1

**Thermal properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Glass transition temperature, 10°C/min	107	°C	ISO 11357-1/-2

**Electrical properties**

	Value	Unit	Test Standard
<b>ASTM Data</b>			
Surface Resistivity	1E9	Ohm	ASTM D 257

**Other properties**

	Value	Unit	Test Standard
Density	1030	kg/m <sup>3</sup>	ISO 1183

**3D Data**

	Value	Unit	Test Standard
<b>Other Standards<sup>[S]</sup></b>			
Tensile modulus, flat	1120	MPa	ISO 527
Tensile strength, flat	24.3	MPa	ISO 527
Stress at break, flat	19.8	MPa	ISO 527
Strain at break, flat	6.4	%	ISO 527
Flexural modulus, flat	856	MPa	ISO 178
Charpy notched impact strength, +23°C, flat	10.9	kJ/m <sup>2</sup>	ISO 179/1eA

S: These properties are reported by the producer according standards that are different to our defaults.

**Characteristics****Processing**

Additive Manufacturing

**Applications**

Electrical and Electronical

**Delivery form**

Monofilament

**Regional Availability**

Europe

**Special Characteristics**

High impact or impact modified