

**KIMYA ABS CARBON**

ABS

ARMOR

**Product Texts**

Printing direction	XY
Printing speed	50-60 mm/s
Infill	100%-rectilinear
Infill angle	45°/-45°
Extrusion temperature	245-270°C
Bed temperature	90-95°C

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt flow index, MFI	<b>17.4</b>	g/10min	ISO 1133
Temperature	<b>220</b>	°C	-
Load	<b>10</b>	kg	-

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Shore D hardness	<b>72.7</b>	-	ISO 7619-1

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Glass transition temperature, 10°C/min	<b>100</b>	°C	ISO 11357-1/-2

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1040</b>	kg/m <sup>3</sup>	ISO 1183

<b>3D Data</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>Other Standards<sup>[S]</sup></b>			
Tensile modulus, flat	<b>2670</b>	MPa	ISO 527
Tensile strength, flat	<b>35.7</b>	MPa	ISO 527
Stress at break, flat	<b>37.5</b>	MPa	ISO 527
Strain at break, flat	<b>2</b>	%	ISO 527
Flexural modulus, flat	<b>1810</b>	MPa	ISO 178

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

**Characteristics****Processing**

Additive Manufacturing

**Features**

Good Adhesion

**Delivery form**

Monofilament

**Regional Availability**

Europe