

## TECHNICAL DATE SHEET

ALFAOMNIA

BASE MATERIAL: PET-G + 10% carbon fiber + additives

### PROPERTIES

| PROPERTIES                       | VALUE                         | METOD AND CONDICTION   |          |
|----------------------------------|-------------------------------|------------------------|----------|
| <b>PHYSICAL &amp; MECHANICAL</b> | Density                       | 1,19 g/cm <sup>3</sup> | ISO 1183 |
|                                  | Tensile module                | 7740 Mpa               | ISO 527  |
|                                  | Tensile strength at break     | 111 Mpa                | ISO 527  |
|                                  | Tensile Elongation            | 3,2%                   | ISO 527  |
|                                  | CHARPY                        | 13 kJ/m <sup>2</sup>   | ISO 527  |
| <b>THERMAL</b>                   | Melting point                 | /                      | /        |
|                                  | Heat Deflection Temperature   | 109°C                  | /        |
|                                  | Viscat Softening Temperature  | 105°C                  | ISO 306  |
|                                  | <b>Electrical properties:</b> |                        |          |
|                                  | Volume resistivity            | /                      | /        |
| Dielectric strength              | /                             | /                      |          |

### SUGGESTED PRINTER SETTING

|                           | VALUE                           | UNIT   |
|---------------------------|---------------------------------|--------|
| Extruder Temperature      | 240 – 260                       | °C     |
| Print Speed               | 40 – 60                         | mm/sec |
| Bed Material              | 0 – 70                          | °C     |
| <b>Recommended nozzle</b> | <b>steel, ruby or tungsten.</b> |        |

### PRODUCT DETAILS & CERTIFICATION

|                |  |  |
|----------------|--|--|
| Diameter       | 1,75 mm<br>2,85 mm   | Tolerance ± 0,05mm<br>Tolerance ± 0,10mm |
| Major Benefits | <ul style="list-style-type: none"> <li>- Mechanically high-performance material</li> <li>- High impact resistance with low temperature ductility</li> <li>- High strength</li> <li>- Excellent printability and resolution</li> <li>- Excellent resistance to high temperatures</li> </ul> |  |

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