

## Material data sheet

### PA 2200

#### 1 General

Typical applications of the material are fully functional parts with high end finish right from the process, which easily withstand high mechanical and thermal load.

PA 2200 is suitable for processing on the following systems:

- EOSINT P 730, P 700
- EOSINT P 390, P 385, P 380i, P 380, with or without powder conveying system  
EOSINT P 360 with upgrade S&tP, P 350/2 with upgrade 99 and upgrade S&tP
- FORMIGA P 100

#### 2 Technical data

##### General material properties

|                                |                   |      |                    |
|--------------------------------|-------------------|------|--------------------|
| Average grain size             | ISO 13320-11      | 56   | μm                 |
|                                | Laser diffraction | 2.20 | mil                |
| Bulk density                   | EN ISO 60         | 0.45 | g/cm <sup>3</sup>  |
| Density of laser-sintered part | EOS method        | 0.93 | g/cm <sup>3</sup>  |
|                                |                   | 58   | lb/ft <sup>3</sup> |

##### Mechanical properties

|                  |            |      |     |
|------------------|------------|------|-----|
| Tensile modulus  | EN ISO 527 | 1700 | MPa |
|                  | ASTM D638  | 247  | ksi |
| Tensile strength | EN ISO 527 | 48   | MPa |
|                  | ASTM D638  | 6962 | psi |



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|                     |            |      |     |
|---------------------|------------|------|-----|
| Elongation at break | EN ISO 527 | 24   | %   |
| Elongation at break | ASTM D638  | 24   | %   |
| Flexural modulus    | EN ISO 178 | 1500 | MPa |
|                     | ASTM D790  | 217  | ksi |
| Flexural strength   | EN ISO 178 | 58   | MPa |
|                     | ASTM D790  | 8412 | psi |
| Charpy -            |            |      |     |