

## 3D Power Hyper PA6

3D Power Hyper PA6 is the first industrial grade material in 3D Power portfolio. Our PA6 is a highly durable and resilient engineering material. The material composition has been optimized to minimize shrinkage, making it easier to print compared to standard PA filaments. It also has excellent thermal properties and chemical resistance.

If the Hyper PA6 is dried well it is even possible to print small or medium sized parts on 3d printers without enclosure!

### Filament specification

| Property            | Value      |
|---------------------|------------|
| Diameter:           | 1.75mm     |
| Diameter tolerance: | ± 0.03mm   |
| Ovality:            | ≥ 95%      |
| Net weight:         | 500g       |
| Nozzle temperature: | 230-270°C  |
| Bed temperature:    | 60-90°C    |
| Cooling:            | 0-20%      |
| Print speed:        | 40-300mm/s |

### Technical data

| Property                           | Typical value               | Test method  |
|------------------------------------|-----------------------------|--------------|
| Density                            | 1.15 g/cm <sup>3</sup>      | D 792        |
| MVR                                | 120 cm <sup>3</sup> /10 min | ISO 1133     |
| Melting temperature                | 182°C                       | ISO 3146     |
| Flammability                       | V2                          | UL-94        |
| Flexural strength                  | 111 MPa                     | ISO 178      |
| Tensile strength                   | 51 MPa                      | ISO 527-1/-2 |
| Flexural modulus                   | 2837 MPa                    | ISO 178      |
| CharpyNotched Izod impact strength | 6,8 kJ/m <sup>2</sup>       | ISO 179/1eU  |
| Elongation at break                | 1,8%                        | ISO 527-1/-3 |
| Tensile modulus                    | 2 881 MPa                   | ISO 527-1/-2 |

#### Disclaimer

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