



## TECHNICAL DATA SHEET - PRO Series ABS

**Commercial Name:** MatterHackers PRO Series ABS Filament  
**Designation:** 3D printing material  
**Manufacturer:** MatterHackers

### Filament Specifications

| PROPERTY               | TYPICAL VALUE | UNIT |
|------------------------|---------------|------|
| Nominal Outer Diameter | 1.75 / 2.85   | mm   |
| OD Tolerance           | ± 0.05        | mm   |
| Ovality                | < 0.05        | mm   |

### Physical Properties

| PROPERTY | STANDARD | UNIT | TYPICAL VALUE |
|----------|----------|------|---------------|
| Density  | ISO 1183 | g/cc | 1.03          |

### Mechanical Properties

| PROPERTY          | STANDARD | UNIT | TYPICAL VALUE |
|-------------------|----------|------|---------------|
| Yield Stress      | ISO 527  | MPa  | 39            |
| Stress at Break   | ISO 527  | MPa  | 30            |
| Flexural Modulus  | ISO 178  | MPa  | 1800          |
| Flexural Strength | ISO 178  | MPa  | 58            |

### Thermal Properties

| PROPERTY                          | STANDARD | UNIT            | TYPICAL VALUE |
|-----------------------------------|----------|-----------------|---------------|
| Heat Deflection Temperature (HDT) | ISO 75   | °C (@ 1.80 MPa) | 80            |

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