

### 3D Printing Filament

## TECHNICAL DATA SHEET ABS-PRO

Commercial name: ABSI0DDP0

Raw material: ABS – Acrylonitrile Butadiene Styrene

Designation: 3D printing applications

#### Material specifications

| Property                     | Value                  | Test Method - ISO |
|------------------------------|------------------------|-------------------|
| Density                      | 1,05 g/cm <sup>3</sup> | 1183B             |
| Vicat Softening Temperature  | 102°C                  | 306/B50           |
| Tensile Modulus              | 2150 MPa               | 527-2             |
| Tensile Stress               | 43 MPa                 | 527-2/50          |
| Flextural Modulus            | 2100 MPa               | 178               |
| Flextural Stress             | 70 MPa                 | 178               |
| Notched Izod Impact Strength | 19 KJ/ m <sup>2</sup>  | 180/A             |

#### Filament specifications

| Property                                | Value and Tolerances |
|---|----------------------|
| Diameter 1.75mm                         | 1.75 ± 0.05 mm       |
| Diameter 2.85mm                         | N/A                  |
| Roundness deviation                     | max 3%               |
| Suggested print temperature (guideline) | 245 – 265°C          |
| Suggested print speed                   | 40 – 70 mm/s         |
| Suggested bed temperature               | 90-110°C             |