

| | |
|---------------|--|
| TRADE NAME: | Fiberlogy ASA |
| MANUFACTURER: | Fiberlab S.A., Brzezie 387, 32-014 Brzezie, Poland |
| DESCRIPTION: | ASA filament designed for printing in FFF/FDM technology, available in different colors, wound on a spool, vacuum-packed in a plastic bag, placed in a cardboard box. |

TECHNICAL INFORMATION:

| | |
|---------------------|---------------|
| Diameter: | 1.75 mm |
| Diameter Tolerance: | +/- 0.02 mm |
| Avg Roundness: | + 0.01 mm |
| Net Weight: | 0.75 kg |
| Print Temperature: | 255°C - 270°C |
| Bed Temperature: | 90°C - 110°C |



| Physical Properties | Test Method | Unit | Typical Value |
|---|-------------|-------------------|---------------|
| Specific Gravity | ISO 1183 | g/cm ³ | 1.07 |
| Mechanical Properties | Test Method | Unit | Typical Value |
| Tensile Strength @ Yield | ISO 527 | MPa | 45 |
| Tensile Strength @ Break | ISO 527 | MPa | 45 |
| Tensile Modulus | ISO 527 | MPa | 2200 |
| Elongation @ Yield | ISO 527 | % | 5 |
| Elongation @ Break | ISO 527 | % | 30 |
| Flexural Strength | ISO 178 | MPa | 80 |
| Flexural Modulus | ISO 178 | MPa | 1900 |
| Izod Impact Strength (Notched) @ 23°C | ISO 180 | kJ/m ² | 18 |
| Thermal Properties | Test Method | Unit | Typical Value |
| Heat Distortion Temperature @ 0.45 MPa | ISO 75 | °C | 92 |
| Heat Distortion Temperature @ 1.8 MPa | ISO 75 | °C | 86 |
| Vicat Softening Temperature | ISO 306 | °C | 100 |
| Glass Transition Temperature T _g | DSC | °C | 105 |
| Melting Temperature T _m | DSC | °C | - |
| Continuous Use Temperature (UL Yellow Card) | UL 746 | °C | 50 |

The information set forth herein has been gathered from standard reference materials and/or supplier test data. To the best knowledge and belief of Fiberlab S.A. they are accurate and reliable. Information is offered only for your consideration, investigation and verification. Fiberlab S.A. makes no warranties, expressed or implied, with respect to the use of such information or the use of the specific material identified herein combination with any other material or process, and assumes no responsibility therefore.

Last update: December 1, 2021