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| TRADE NAME: | Fiberlogy R ABS |
| MANUFACTURER: | Fiberlab S.A., Brzezie 387, 32-014 Brzezie, Poland |
| DESCRIPTION: | R ABS filament designed for printing in FFF/FDM technology, available in anthracite color, wound on a spool or as a refill, vacuum-packed in a plastic bag, placed in a cardboard box. |

TECHNICAL INFORMATION:

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| Diameter: | 1.75 mm |
| Diameter Tolerance: | +/- 0.02 mm |
| Avg Roundness: | + 0.01 mm |
| Net Weight: | 0.75 kg |
| Print Temperature: | 250°C - 265°C |
| Bed Temperature: | 90°C - 110°C |



| Physical Properties | Test Method | Unit | Typical Value |
|---|-------------|-------------------|---------------|
| Specific Density | ISO 1183 | g/cm ³ | 1.04 |
| Mechanical Properties | Test Method | Unit | Typical Value |
| Tensile Strength @ Yield | ISO 527 | MPa | 42 |
| Tensile Strength @ Break | ISO 527 | MPa | 32 |
| Tensile Modulus | ISO 527 | MPa | 1750 |
| Elongation @ Yield | ISO 527 | % | 5 |
| Elongation @ Break | ISO 527 | % | 35 |
| Flexural Strength | ISO 178 | MPa | 60 |
| Flexural Modulus | ISO 178 | MPa | 1850 |
| Izod Impact Strength (Notched) @ 23°C | ISO 180 | kJ/m ² | 30 |
| Thermal Properties | Test Method | Unit | Typical Value |
| Heat Distortion Temperature @ 0.45 MPa | ISO 75 | °C | 94 |
| Heat Distortion Temperature @ 1.8 MPa | ISO 75 | °C | 85 |
| 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 | 60 |

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