

Technical Datasheet Metal Filled PLA

General information

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|--------------|---|
| Trade name | Octofiber Metal Filled PLA Filament [Copper/Bronze] |
| Polymer name | Poly Lactic Acid |

Filament specifications

| | | | | |
|-------------------|--------|----|------|----|
| Trade diameter | 1.75mm | | 3mm | |
| Physical diameter | 1.75 | mm | 2.85 | mm |
| Tolerance | 0.05 | mm | 0.10 | mm |

Material specifications

| Property | Value | Unit | Test Method |
|--------------------------------------|-------|-------------------|-------------|
| <i>Physical</i> | | | |
| density | 3.4 | g/cm ³ | ISO 1183 |
| melt mass flow rate (MFR) | 7 | g/10min | ISO 1133 |
| <i>Mechanical</i> | | | |
| tensile stress @ yield | 18.3 | MPa | ISO 527 |
| tensile modulus | 3990 | MPa | ISO 527 |
| elongation @ break | | % | ISO 527 |
| impact strength Izod unnotched 23 °C | 11.3 | J | ISO 180 |
| <i>Thermal</i> | | | |
| melting point | 185 | °C | ISO 11357 |
| vicat softening point | 65 | °C | ISO 306 |

Notes

- properties may change depending on actual printer settings

