

# Technical Data Sheet



## Product name: EasyFil™ PLA

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Version: v2

EasyFil™ PLA is an “easy to use” high-end PLA (Poly-Lactic Acid ) type of 3D printer filament. With retaining the typical PLA features, EasyFil™ PLA is slightly modified with an impact modifier, making the filament tougher, less rigid, slightly softer and therefore “easy to print” at relatively low temperatures. By being slightly modified, EasyFil™ PLA is much longer preservable than normal PLA.

Another great advantage of EasyFil™ PLA - compared to regular PLA - is EasyFil™'s low shrinkage factor, which makes EasyFil™ PLA nearly warp-free and therefore EasyFil™ PLA will not deform after cooling.

| Properties             | Typical value         | Test Method | Test condition |
|------------------------|-----------------------|-------------|----------------|
| <b>Physical</b>        |                       |             |                |
| Specific gravity       | 1.24 g/cc             | ASTM D1505  | -              |
| Melt flow rate         | 6.0 g/10min           | -           | -              |
| Water absorption       | -                     | -           | -              |
| Moisture absorption    | -                     | -           | -              |
| <b>Mechanical</b>      |                       |             |                |
| Impact strength        | 7.5 KJ/m <sup>2</sup> | -           | -              |
| Tensile strength       | 110 Mpa (MD)          | ASTM D882   | -              |
| Tensile modulus        | 3310 Mpa (MD)         | ASTM D882   | -              |
| Elongation at break    | 160% (MD)             | ASTM D882   | -              |
| Flexural strength      | ± 55.2 Mpa            | -           | -              |
| Flexural modulus       | ± 2392.5 Mpa          | -           | -              |
| Hardness               | -                     | -           | -              |
| <b>Thermal</b>         |                       |             |                |
| Print temperature      | ± 180 - 220° C        | -           | -              |
| Melting temperature    | ± 210 ± 10° C         | -           | -              |
| Viscat softening temp. | ± 60° C               | ISO 306     | -              |
| <b>Optical</b>         |                       |             |                |
| Haze                   | 2.1%                  | ASTM D1003  | -              |
| Transmittance          | -                     | -           | -              |
| Gloss                  | 90                    | ASTM D1003  | Gloss, 20°     |

| Product details, certifications and compliance | Diameter | Tolerance | Roundness |       |
|--|----------|-----------|-----------|-------|
| HS Code  | 39169090 | 1.75mm    | ± 0.05mm  | ≥ 95% |
| REACH compliant                                | Yes      | 2.85mm    | ± 0.10mm  | ≥ 95% |
| RoHS certified                                 | Yes      |           |           |       |
| FDA compliant                                  | Yes      |           |           |       |

|                  |                     |                             |
|------------------|---------------------|-----------------------------|
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