

# Technical Data Sheet



**Product name:** EasyWood™

**Date of issue:** 09 April 2015

**Version:** v2

EasyWood™ looks, feels and smells like real wood. EasyWood™ is a unique mixture of 40% grinded wood particles in combination with the modified and proven easy-to-print binding polymers used for our EasyFil™ PLA filaments. This extraordinary blend has resulted in a high-end and unsurpassed “easy to print” wooden filament.

You can obtain a beautiful wood-nerve structure in your EasyWood™ printed objects by grinding it a little bit with a piece of fine grit sandpaper. By grinding your printed object a bit you will highlight the relief, or rough edges/surfaces, of your printed object with different shades of the respective wood colour.

| Properties             | Typical value         | Test Method | Test condition |
|------------------------|-----------------------|-------------|----------------|
| <b>Physical</b>        |                       |             |                |
| Specific gravity       | 1.20 g/cc             | ASTM D1505  | -              |
| Melt flow rate         | 4.5 g/10min           | -           | -              |
| Water absorption       | -                     | -           | -              |
| Moisture absorption    | -                     | -           | -              |
| <b>Mechanical</b>      |                       |             |                |
| Impact strength        | 7.1 KJ/m <sup>2</sup> | -           | -              |
| Tensile strength       | 71 Mpa (MD)           | ASTM D882   | -              |
| Tensile modulus        | 1930 Mpa (MD)         | ASTM D882   | -              |
| Elongation at break    | 171% (MD)             | ASTM D882   | -              |
| Flexural strength      | ± 59.6 Mpa            | -           | -              |
| Flexural modulus       | ± 2583.9 Mpa          | -           | -              |
| Hardness               | -                     | -           | -              |
| <b>Thermal</b>         |                       |             |                |
| Print temperature      | ± 200 - 240° C        | -           | -              |
| Melting temperature    | ± 145 ± 10° C         | -           | -              |
| Viscat softening temp. | ± 46° C               | ISO 306     | -              |
| <b>Optical</b>         |                       |             |                |
| Haze                   | -                     | -           | -              |
| Transmittance          | -                     | -           | -              |
| Gloss                  | -                     | -           | -              |

| 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 Approved                                   | No       |          |           |           |

|                    |                     |                             |
|--------------------|---------------------|-----------------------------|
| Formfutura VOF     | CoC: 55502105       | Tel: +31 (0)20 893 4114     |
| Haparandaweg 67 E5 | VAT: NL851741083B01 | Email: info@formfutura.com  |
| 1013 BD Amsterdam  | EORI: NL851741083   | Website: www.formfutura.com |
| The Netherlands    |                     |                             |

All information supplied by or on behalf of Formfutura in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but Formfutura assumes no liability and makes no warranties of any kind, express or implied, including, but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage, or trade practice whatsoever in respect of application, processing or use made of the forementioned information or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequence from the use of all such information. Typical values are indicative only and are not to be construed as being binding specifications.