

# TECHNICAL DATA SHEET

ReForm – Organic rPLA

Date of issue: 21-10-2024 / Date of update: 21-10-2024



## Product specifications

ReForm - Organic rPLA is 100% recycled PLA filled with organic by-products. Waste streams find a second life as bio-filler in our ReForm - Organic rPLA.

The filling with organic fillers give your printed parts a unique appearance. 3D printed parts display beautiful organic textures and color shades.

## Important key features

- 100% recycled PLA + bio-fillers.
- Unique organic colors.
- Authentic organic color shading.
- Beautiful organic texture(s).

## Suitable applications

- Home decorations.
- Art.
- Educational projects.

## Organic bio-fillers

ReForm – Organic rPLA is filled with organic by-products from various industries. These bio-fillers are 100% organic by-products and by that can vary slightly in color and shade between batches. This means that every print is authentic in its texture, color, and shade.

## Material properties

	Typical value	Test Method
Specific Gravity	1.24 g/cm <sup>3</sup>	ASTM D 792
MFR (210°C, 2.16kg)	6 g/10min	ASTM D 1238

## Mechanical properties

Tensile strength @break	53 MPa	ASTM D 882
Tensile strength @yield	60 MPa	ASTM D 882
Tensile modulus	3500 MPa	ASTM D 882
Tensile elongation	6%	ASTM D 882
Strain at tensile strength	1.9%	ASTM D 882
Flexural strength	83 MPa	ASTM D 790
Flexural modulus	3.8 MPa	ASTM D 790
Notched Izod impact strength	16 J/m	ASTM D 256

## Thermal properties

HDT (0.45mn/m <sup>2</sup> )	55°C	ASTM E 2092
Vicat Softening Temperature	55-60°C	ASTM D 3418

## Storage and handling

Filament should be stored at room temperature in a dry and dark place with humidity below 15%. Recommended storage temperature is ca. 18-25°C (64.4 -77.0°F). Keep out of moisture, sunlight and direct heat. When stored properly, product has a shelf life of 24 months. To obtain the best parameters of the printed object, it is recommended to dry the material prior to usage and to 3D print it directly from a dry box.

## Product export information

HS Code	Description	Origin
39169090	Monofilament for 3D printing	European Union



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## Disclaimer

*The product- and technical data provided in this datasheet is correct to the best of FormFutura BV's knowledge and are intended for reference and comparison purposes only. Actual values may vary according to printing conditions, model complexity, environmental conditions, etcetera. Typical values are indicative only and are not to be construed as being binding specifications. All other information supplied, including that herein, is considered accurate but is furnished upon the express condition that the customer shall make its own assessment to determine a product's suitability for a particular purpose. We make no warranty, express or implied, including regarding any information supplied or the data upon which it is based or the results to be obtained from the use of such products or information, or concerning product, whether of satisfactory quality, merchantability, fitness for any particular purpose or otherwise, or with respect to intellectual property infringement as a result of use of information or products, and none shall be implied.*

