

## **Ultrafuse® rPET**

### **Sustainability Meets High Performance**

No less than 44 % of total waste\* is generated by plastics. The 3D printing community provides a powerful opportunity to make current manufacturing methods more sustainable, so we have challenged ourselves to create a filament made from recycled material that is a serious alternative to filaments made from virgin raw materials.

We are now proud to say that with the new Ultrafuse® rPET we have more than met the challenge. The "r" stands for recycled, as Ultrafuse® rPET is made from recycled PET medical equipment. Components printed with Ultrafuse® rPET print, look and perform as outstandingly as our PET filament made from virgin raw material.

#### **Benefits at a Glance**

- Sustainable alternative to PET
- Easy to print
- Great end results

#### **Example Applications**

- Jigs & fixtures
- Automotive parts
- Prototyping

#### lications Material Properties

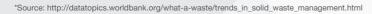
Tensile Strength (MPa)	14.7 (ZX), 38.6 (XY)
Flexural Modulus (MPa)	829(ZX), 1551 (XZ), 1662 (XY)
Elongation at Break	1.2 % (ZX), 4.3 %(XY)
Impact Strength Izod notched (kJ/m²)	1.5 (ZX), 3.3 (XZ), 4.4 (XY)
Impact Strength Izod unnotched (kJ/m²)	4.4 (ZX), 21.9 (XZ), 48.2 (XY)
HDT @ 0.45 MPa	71°C

O BASE

#### **Printing Guidelines**

Nozzle Temperature	225-245 °C
Bed Temperature	65-85 °C
Nozzle Diameter	≥0.4 mm
Bed Modification	Adhesive spray or glue
Print Speed	30-60 mm / s
Drying	Vacuum dryer or hot air dryer 60 °C for 4-16 hours

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# Ultrafuse® rPET

□ • BASF
We create chemistry