

## Technical Data Sheet

# Ultracur3D<sup>®</sup> EPD 1006

Easy-to-use daylight resin, ideal for prototyping.

| General Properties     | Norm                              | Typical Values        |
|------------------------|-----------------------------------|-----------------------|
| Appearance             | -                                 | Black                 |
| Viscosity, 30 °C       | Cone/Plate Rheometer <sup>1</sup> | 1033 mPas             |
| Viscosity, 50 °C       | Cone/Plate Rheometer <sup>1</sup> | 268 mPas              |
| Density (printed part) | ASTM D792                         | 1.2 g/cm <sup>3</sup> |

| Tensile Properties        | Norm (5 mm/min) | Typical Values |
|---------------------------|-----------------|----------------|
| E Modulus                 | ASTM D638       | 1500 MPa       |
| Ultimate Tensile Strength | ASTM D638       | 40 MPa         |
| Elongation at Break       | ASTM D638       | 25 %           |

| Flexural Properties | Norm      | Typical Values |
|---------------------|-----------|----------------|
| Flexural Modulus    | ASTM D790 | 1460 MPa       |
| Flexural Strength   | ASTM D790 | 52 MPa         |

| Impact Properties               | Norm      | Typical Values        |
|---------------------------------|-----------|-----------------------|
| Notched Izod (Machined), -30 °C | ASTM D256 | 20 J/m                |
| Notched Izod (Machined), 23 °C  | ASTM D256 | 35 J/m                |
| Charpy notched, 23 °C           | ISO 179-1 | 2.5 kJ/m <sup>2</sup> |

| Thermal Properties | Norm         | Typical Values |
|--------------------|--------------|----------------|
| HDT at 0.45 MPa    | ASTM D648    | 44 °C          |
| HDT at 1.82 MPa    | ASTM D648    | 40 °C          |
| Flammability       | UL 94 1.5 mm | HB             |

| Hardness | Norm       | Typical Values |
|----------|------------|----------------|
| Shore D  | ASTM D2240 | 79             |

| Other                                      | Norm      | Typical Values                   |
|--|-----------|----------------------------------|
| Biocompatibility                           | ISO 10993 | Information available on request |
| Water Absorption, Short Term<br>(24 hours) | ASTM D570 | 0.83 %                           |

1) Determined with TA-Instrument DHR rheometer, cone/plate, diameter 60 mm, shear rate 100 s<sup>-1</sup>

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