#### **Ultimaker**

# **Ultimaker Breakaway**

## Technical data sheet



Chemical composition PLA / TPU mixture - see Ultimaker Breakaway safety data sheet

Ultimaker Breakaway is a support material for dual extrusion 3D Description

printing. Breakaway supports can be quickly removed and do not need further post-processing to give a smooth finish to your 3D print. Designed for a hassle-free 3D printing experience, Breakaway provides good adhesion to PLA, PETG, Nylon and ABS-based filaments. For the

latest compatibility overview, check our support website.

**Key features** Good bonding to a variety of build materials, robust support while

still weak and ductile enough to remove from the model. Longer shelf life and less moisture sensitivity compared to water-soluble

support materials

**Applications** Breakaway support material for a variety of Ultimaker materials. Check

our support website for the latest overview.

Non-suitable for Intricate, internal geometries where the support is not accessible

> for removal. Delicate objects with tiny details. Food contact and in vivo applications. Swelling or elution might occur against oils or

organic solvent

Filament specifications

Method (standard) Value Diameter

 $2.85 \pm 0.05 \, \text{mm}$ 

Max roundness deviation 0.10 mm

Net filament weight 750 g

Filament length ~ 96 m

Color information

Color code Color **Breakaway White RAL 9010** 

### Thermal properties

Test Method Typical value
Melt mass-flow rate (MFR) ISO 1133 (220 °C, 2.16 kg) 3-6 g / 10 min

Heat deflection (HDT) at 0.455 MPa\*ISO 75-2 / B

Vicat softening temperature\* ISO 306 / A120

Glass transition ISO 11357 (DSC, 10 °C / min) 59.7 °C

Melting temperature ISO 11357 (DSC, 10 °C / min) 151.8 °C

### Other properties

Specific gravity ASTM D792 1.22 g / cm<sup>3</sup>

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