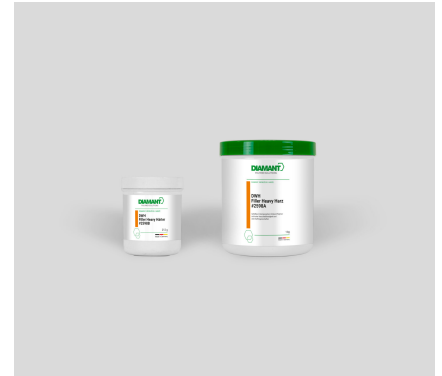


■ DWH Filler Heavy #2597

Product description

DWH Filler Heavy is a low-viscosity, magnetic 2-component filler based on epoxy resin. It is used for form-fit and force-fit filling and for optimising the properties in terms of density and mechanical load-bearing capacity of 3D printed components. Using casting, injection and moulding processes, even complex shapes and structures can be produced with an accuracy in the μm range.



Components filled with DWH Filler Heavy are significantly more resilient than fully printed 3D plastic components. It also offers the possibility of achieving higher weights in fully printed 3D plastic parts with low volumes. DWH Filler Heavy can be removed with a micro-thin layer of DIAMANT release agent on the mating surface. The result is an exact copy of the moulded surface. High-precision surface preparation and mechanical finishing of the surfaces is not required. In modern production technology, process times and costs can be reduced many times over.

Properties

- Magnetic
- Good recoatability
- Solvent-free system
- Simple application
- Very good penetration behaviour
- Self-levelling
- Good thermal and electrical insulating properties
- Mechanically workable
- High density

Typical applications

- Filler and composite material in the 3D printing sector
- Sealing and weight optimisation
- Stability increase, static optimisation
- Saving printing time and printing material
- Increasing mechanical strength
- Optimisation of tensile strength

Pack sizes

Article

500ml

Description

1L

Custom sizes on request.

Product data Delivery condition

Density

2597A 4,02 g/cm³; 2597B 0,989 g/cm³

Viscosity

2597A 165000 [mPas]; 2597B 75 [mPas]

Mixing ratio

[A : B] (gr) 93,5 : 6,5

Product data mixed

Pot life

300 minutes at 20°C/100g

Curing

48h at 20°C; 24h at 30°C

Processing temperature

10°C to 40°C

Density

3.82 g/cm³

DIN EN ISO 1183

Compressive strength

103.3 N/mm²

DIN EN ISO 604

Strength

88

Tensile strength

47.3 N/mm

DIN EN ISO 527 1-5

Temperature resistance (briefly)	100	
Dry film thickness	160	
Mixed viscosity	2100 mPas	DIN 53019
Pot life at 20 °C/100 g	300 min	DIN EN ISO 9514
Maximum heating at 10 °C	2 °C	DIN EN ISO 9514
Maximum heating at 20 °C	6 °C	DIN EN ISO 9514
Maximum heating at 30 °C	12 °C	DIN EN ISO 9514
Maximum heating at 40 °C	15 °C	DIN EN ISO 9514
Compressive strength prism	82,4 N/mm ²	DIN EN ISO 604

Disposal

Cured material can be disposed of with household waste. Uncured material can be disposed of at the local hazardous waste collection centre.

Safety data sheet

Please read the relevant safety data sheet before using the product. Safety data sheets are available on a daily basis on request via info@diamant-polymer.de or by telephone on +49-2166-98360. DIAMANT guarantees the product properties as long as they are stored and used in accordance with the specifications listed here. DIAMANT accepts no responsibility for the processing of the material. Our technicians will be happy to answer any further questions you may have.

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This edition replaces all previous versions.