

## BIW Isolierstoffe GmbH

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## Certified management system by:

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001
- IIP (Investors in People)



TECHNICAL DATASHEET

## INDUSTRIES AND APPLICATIONS



# THERMOFLEX F

## Typical uses

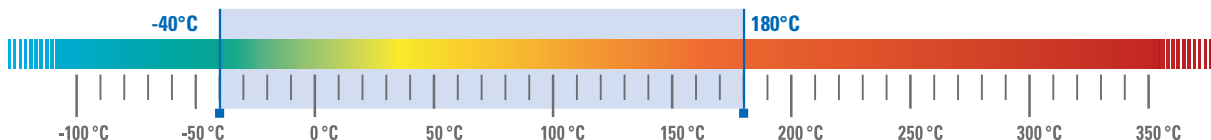
- Automotive industry
- E-mobility / hybrid
- Cable manufacture
- Line protection

## Key properties

- Long-term heat resistance of -40°C to +180°C
- Short-term heat resistance up to +205°C
- Horizontal self-extinguishing
- High mechanical (impact) protection
- Acoustic attenuation - clatter protection
- Good flexibility and stretchability
- Resistant to UV- and gamma-radiation
- Good resistance to water, water-glycol mixture, salt spray, as well as to fuels and lubricants during temporary exposure
- Physiologically harmless
- Very good thermal insulation
- Colour: red brown, black
- Nominal diameter 4.0 mm to 30.0 mm



## Application temperature



## Product description

The protective sleeve THERMOFLEX F is a combination of a thick-walled braided textile glass fibre and a silicone foam coating. The silicone foam ensures good thermal insulation and excellent mechanical protection to impacts. Furthermore the foam structure effects a significant acoustic attenuation. The resistance is very good to high temperatures and aggressive media. On demand THERMOFLEX F protective sleeve is available with a special setting in a self-extinguishing version (UL 1441 VW-1).

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**When it comes to competence**

INDUSTRIES AND APPLICATIONS



**THERMOFLEX F**

**Application properties**

Property	Standard	Test requirements	Result
Flame resistance	LV 312-3 FMVSS 302	Flame height 38 mm Flame exposure 15s	Self-extinguishing

**Mechanical / physical properties**

Property	Standard	Test requirements	Result
Abrasion resistance	LV 312-3	Test at room temperature	Classification A

**Ecology, Environment & Safety**

Ingredients compliant with VDA requirements

IMDS listed

RoHS, GADSL compliant

Non-asbestos, textil glass fibres non-carcinogenic, non-hazardous to the environment, non-hazardous to water.

When using and disposing the THERMOFLEX F protective sleeve there are no environmentally relevant by-products expected.

**BIW-Standard dimensions**

**THERMOFLEX F (Code: GHF)**

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
4.0	±0.50	2.5	±0.50	100
5.0	±0.50	3.0	±0.50	100
6.0	±0.50	3.0	±0.50	100
7.0	±0.50	3.0	±0.50	100
8.0	±0.80	3.0	±0.50	100
9.0	±0.80	3.0	±0.50	100
10.0	±0.80	3.0	±0.70	50
11.0	±0.80	3.0	±0.70	50
12.0	±0.80	3.0	±0.70	50
13.0	±0.80	3.0	±0.70	50
14.0	±0.80	3.0	±0.70	50
15.0	±1.0	3.0	±0.70	50
16.0	±1.0	3.0	±0.70	50
17.0	±1.0	3.0	±0.70	50

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**THERMOFLEX F****BIW-Standard dimensions****THERMOFLEX F (Code: GHF)**

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
18.0	±1.0	3.0	±0.70	50
19.0	±1.0	3.0	±0.70	50
20.0	±1.50	3.0	±0.70	50
21.0	±1.50	3.0	±0.70	25
22.0	±1.50	3.0	±0.70	25
23.0	±1.50	3.0	±0.70	25
24.0	±1.50	3.0	±0.70	25
25.0	±1.50	3.0	±0.80	25
26.0	±1.50	3.0	±0.80	25
27.0	±1.50	3.0	±0.80	25
28.0	±1.50	3.0	±0.80	25
29.0	±1.50	3.0	±0.80	25
30.0	±1.50	3.8	±0.80	25