

## 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



## ISOFLEX F

### Typical uses

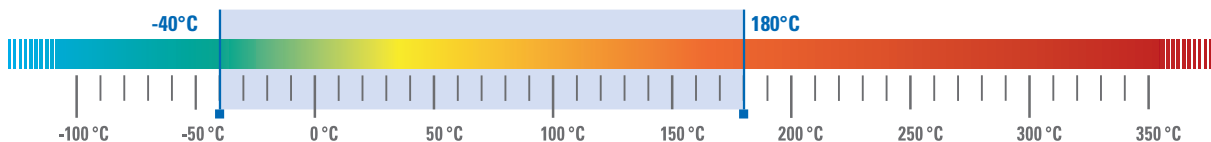
- Automotive industry
- E-mobility / hybrid
- Cable manufacture
- Line protection

### 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 insulation (clatter protection), excellent heat insulation
- 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
- Colours: red brown, black
- Nominal diameter 4.0 mm to 30.0 mm



### Application temperature



### Product description

ISOFLEX F protective sleeve is a combination of a textile glass fabric and a silicone foam coating. The silicone foam ensures with a wall thicknesses of up to 5.0 mm a very good thermal insulation and excellent mechanical protection against impact. The foam structure also leads to significant acoustic insulation (clatter protection). The resistance is very good to high temperatures and aggressive media. The efficient knitting method in connection with the special silicone foam coating reaches a high quality level. ISOFLEX F is available in a special design with a vertical self-extinguishing setting according to UL 1441 VW-1.

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## ISOFLEX 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, textileglass fibres non-carcinogenic, non hazardous to the environment, not hazardous to water

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

## BIW-Standard dimensions

### ISOFLEX F (Code: GSF)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
4.0	+0.5	1.0	±0.5	100
5.0	+0.5	3.0	±0.5	100
6.0	+0.5	3.0	±0.5	100
7.0	+0.5	3.0	±0.5	100
8.0	+0.8	3.0	±0.5	100
9.0	+0.8	3.0	±0.5	100
10.0	+0.8	3.0	±0.5	100
11.0	+0.8	3.0	±0.7	50
12.0	+0.8	3.0	±0.7	50
13.0	+0.8	3.0	±0.7	50
14.0	+0.8	3.0	±0.7	50
15.0	+1.0	3.0	±0.7	50
16.0	+1.0	3.0	±0.7	50
17.0	+1.0	3.0	±0.7	50

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**ISOFLEX F****BIW-Standard dimensions****ISOFLEX F (Code: GSF)**

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	±0.7	50
19.0	+1.0	3.0	±0.7	50
20.0	+1.5	3.0	±0.7	50
21.0	+1.5	3.0	±0.7	25
22.0	+1.5	3.0	±0.7	25
23.0	+1.5	3.0	±0.7	25
24.0	+1.5	3.0	±0.7	25
25.0	+1.5	3.0	±0.8	25
26.0	+1.5	3.0	±0.8	25
27.0	+1.5	3.0	±0.8	25
28.0	+1.5	3.0	±0.8	25
29.0	+1.5	3.0	±0.8	25
30.0	+1.5	5.0	±0.8	25