

## 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



## FLEXTEX

### Typical uses

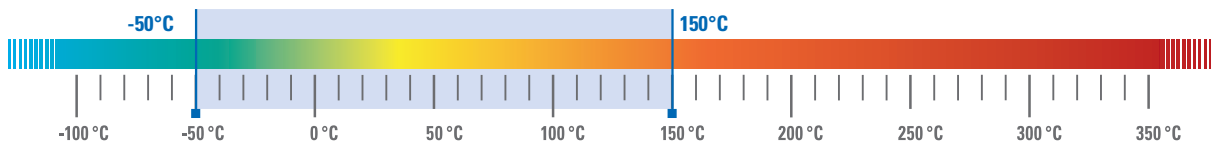
- Automotive industry
- E-mobility / hybrid
- Cable manufacture
- Line protection

### Key properties

- Long-term heat resistance of -50°C to +150°C
- Short-term heat resistance up to +180°C
- High abrasion resistance, abrasion classification D according to standard LV 312-3
- Very good flexibility
- Due to the construction and the use of elastic materials dynamic loads are uncritical
- Good resistance to water, salt spray mist, cleaning agents and impregnating resins
- Good resistance to fuels and lubricants in the event of temporary use  
Round wound with tangentially overlapping opening
- Physiologically harmless
- Colour: orange, black, purple
- Nominal diameter 5.0 mm to 50.0 mm



### Application temperature



### Tests / References



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INDUSTRIES AND APPLICATIONS



**FLEXTEX**

**Product description**

FLEXTEX is a flexible PET protective sleeve for subsequent assembly. The flexibility and resilient behavior with excellent abrasion resistance results of the woven PET design. FLEXTEX is suitable for bundling cables and lines, especially for mechanical protection because of the properties. The overlapping longitudinal slit allows an easy assembly on already installed cables. To assemble FLEXTEX, the sleeve is opened at the lap and it is pushed over the product which has to be protected. FLEXTEX can easily be assembled in the entire length as well as disassembled again. A large number of applications do not require any additional fixing. A lot of applications do not need an additional fixation but if it is necessary cable ties or hose clamps can be used. FLEXTEX is also available in a self-adhesive version (FLEXTEX SK, for fixing the closure).

**Application properties**

Property	Standard	Test requirements	Result
Flame resistance	LV312-2 FMVSS 302	Flame exposure 15s Sample location closed	Classification C
Absorbency	DIN EN ISO 9073-6	Immersion depth 30 mm Immersion time 15 min	Requirement achieved
Shrinkage	ISO 6722-1	Temperature 205°C	Requirement achieved

**Ageing**

Property	Standard	Test requirements	Result
Hydrolysis test	LV 312-3	Winding test according to ISO 544	Requirement achieved
Short-term ageing 240h / 180°C	ISO 6722-1	Winding test under standard conditions	Requirement achieved
Long-term ageing 3000h / 150°C	LV 312-3	Winding test under standard conditions	Requirement achieved
Ozone test	DIN 53509-1	Method B	Requirement achieved
Temperature and humidity cycling	ISO 6722-1	-40°C to + 175°C Humidity: 80-100% Cycles: 40	Requirement achieved

**Mechanical / physical properties**

Property	Standard	Test requirements	Result
Abrasion resistance	LV 312-3	23°C according to ISO 544, 7N	Classification D
Tensile strength / elongation at break	LV 312-2	5 mm/s at 23°C according to DIN 50014	

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**FLEXTEX**

## Compatibilities

Medium	Standard	Test requirements	Result
Biodiesel	VW 80000	Storage at 150°C for 22h	Requirement achieved
Break fluid	VW 80000	Storage at 150°C for 22h	Requirement achieved
Diesel	VW 80000	Storage at 150°C for 22h	Requirement achieved
Odor test	LV 312-2	Storage at 23°C for 24h	Clearly noticeable, but not distracting
Cold cleaning agent	VW 80000	Storage at 150°C for 22h	Requirement achieved
Fuel FAM-B	VW 80000	Storage at room temperature for 10min	Requirement achieved
Radiator antifreeze	VW 80000	Storage at 150°C for 22h	Requirement achieved
Steering gear fluid	VW 80000	Storage at 150°C for 22h	Requirement achieved
Multigrade engine oil	VW 80000	Storage at 150°C for 22h	Requirement achieved

## Ecology, Environment & Safety

Ingredients compliant with VDA requirements

IMDS listed

RoHS, GADSL compliant

Non-asbestos, contains no fiberglass, physiologically harmless, non-toxic, non hazardous to the environment, not hazardous to water  
In use and disposal of the FLEXTEX protective sleeve there are no environmentally relevant co-products expected.

## BIW-Standard dimensions

### FLEXTEX (Code: FLE)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
5.0	overlapping 90°+40°-25°	0.50	±0.25	production length on customer specification
8.0	overlapping 90°+40°-25°	0.60	±0.25	production length on customer specification
10.0	overlapping 90°+40°-25°	0.60	±0.25	production length on customer specification
13.0	overlapping 90°+40°-25°	0.60	±0.25	production length on customer specification
16.0	overlapping 90°+40°-25°	0.60	±0.25	production length on customer specification
18.0	overlapping 90°+40°-25°	0.60	±0.25	production length on customer specification

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**FLEXTEX****BIW-Standard dimensions****FLEXTEX (Code: FLE)**

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
19.0	overlapping 90°+40°-25°	0.60	±0.25	production length on customer specification
25.0	overlapping 90°+40°-25°	0.60	±0.25	production length on customer specification
29.0	overlapping 90°+40°-25°	0.60	±0.25	production length on customer specification
32.0	overlapping 90°+40°-25°	0.60	±0.25	production length on customer specification
35.0	overlapping 90°+40°-25°	0.60	±0.25	production length on customer specification
50.0	overlapping 90°+40°-25°	1.00	±0.30	production length on customer specification