

## 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 300R

## Typical uses

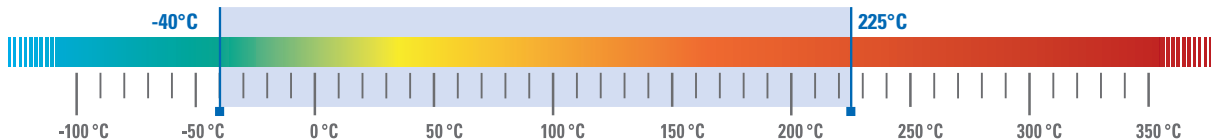
- Automotive industry
- E-mobility / hybrid
- Electrical insulation
- Cable manufacture
- Line protection

## Key properties

- Long-term heat resistance of -40°C to +200°C
- Short-term heat resistance up to +225°C
- Temperature resistance at radiant heat up to 330°C
- Silicone coating with good heat reflection
- Self-extinguishing (UL)
- Good resistance to water, water-glycol mixture, salt spray, as well as to fuels and lubricants during temporary exposure
- High flexibility and stretchability
- Very good compressibility
- Physiologically harmless
- Excellent value for money through efficient knitting process
- Colour: silver
- Nominal diameter 3.0 mm to 35.0 mm



## Application temperature



## Tests / References



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## ISOFLEX 300R

### Product description

The ISOFLEX 300R protective sleeve is a combination of a textile glass fabric and an silicone coating. The resistance to high temperatures is extraordinary by using an special aluminium based silicone with heat reflection properties. On demand the silver-grey ISOFLEX 300R is available in a self-extinguishing setting according to UL 1441 VW-1. The special design and efficient manufacturing processes ensure an equal internal and external surface, a very good compressibility where there is special roundness and good tensibility. These characteristics makes the process of cable assembly simple and effective.

### Application properties

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

### Ageing

Property	Standard	Test requirements	Result
Short-term ageing 240h / 225°C	According LV 312-3	Winding test	requirements achieved
Long-term ageing 3000h / 200°C	According LV 312-3	Winding test	requirements achieved

### Mechanical / physical properties

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

### Ecology, Environment & Safety

Ingredients compliant with VDA requirements

IMDS listed

RoHS, GADSL compliant

Non-asbestos, textile glass fibres non-carcinogenic, non hazardous to the environment, not hazardous to water

When using and disposing of the ISOFLEX 300R protective sleeve there are no environmentally relevant by-products expected

### BIW-Standard dimensions

#### ISOFLEX 300R (Code: GGX)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
3.0	±0.5	0.5	±0.2	200
4.0	±0.5	0.7	±0.2	200
5.0	±0.5	0.7	±0.2	200
6.0	±0.5	0.7	±0.2	200

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*When it comes  
to competence*

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**ISOFLEX 300R****BIW-Standard dimensions****ISOFLEX 300R (Code: GGX)**

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
7.0	±0.5	0.8	±0.2	100
8.0	±0.5	0.8	±0.2	100
9.0	±0.5	0.8	±0.2	100
10.0	±0.5	0.8	±0.2	100
11.0	±0.5	0.8	±0.2	100
12.0	±0.5	0.8	±0.2	100
13.0	±0.5	0.8	±0.2	100
14.0	±0.5	0.8	±0.2	100
15.0	±0.5	0.8	±0.3	100
16.0	±0.7	0.8	±0.3	100
17.0	±0.7	0.8	±0.3	100
18.0	±0.7	0.8	±0.3	100
19.0	±0.7	0.8	±0.3	50
20.0	±0.7	0.8	±0.3	50
21.0	±0.7	1.0	±0.3	50
22.0	±0.7	1.0	±0.3	50
23.0	±0.7	1.0	±0.3	50
24.0	±0.7	1.0	±0.3	50
25.0	±0.7	1.2	±0.3	50
26.0	±0.8	1.2	±0.3	50
27.0	±0.8	1.2	±0.3	50
28.0	±0.8	1.2	±0.3	50
29.0	±0.8	1.2	±0.3	50
30.0	±0.8	1.2	±0.3	50
31.0	±0.8	1.2	±0.3	50

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## ISOFLEX 300R

## BIW-Standard dimensions

### ISOFLEX 300R (Code: GGX)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
32.0	±0.8	1.2	±0.3	50
33.0	±0.8	1.2	±0.3	50
34.0	±0.8	1.2	±0.3	50
35.0	±0.8	1.6	±0.3	50