**BIW Isolierstoffe GmbH**

Pregelstraße 2-5
D-58256 Ennepetal
Tel.: +49 (2333) 8308-0
Fax.: +49 (2333) 8308-10
info@biw.de

**www.biw.de**

**Certified management system by:**

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001

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INDUSTRIES AND APPLICATIONS

# ARA - TEXFLEX DUO

## Typical uses

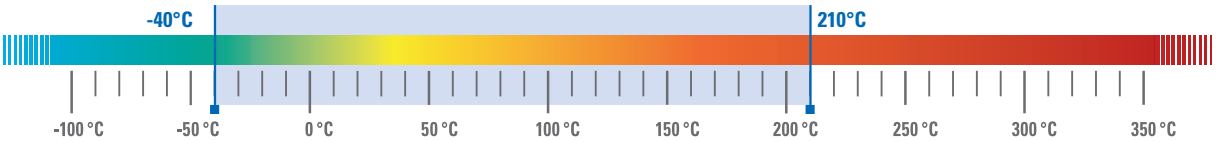
- Automotive industry
- Crash protection
- E-mobility / hybrid
- Cable manufacture
- Line protection

## Key properties

- Long-term heat resistance of -40°C to +210°C
- Short-term heat resistance up to +235°C
- Very good protection against marten bite
- Good abrasion behavior under mechanical stress
- Very good resistance to fuels and lubricants, water, salt spray, cleaning agents as well as acids and alkalis for temporary exposure
- High cut resistance
- High bending and tensile strength
- Very high impact protection
- Double-walled, thermally insulated
- Physiologically harmless
- Colour: orange, black
- Nominal diameter 10.0 mm to 22.0 mm

Chlorine free

## Application temperature






All information shown in this data sheet is based on our testing and experience and is to the best of our knowledge. It represents an accurate presentation of the product. The data are typical values and are not to be used as the end use specification. It is the customers' responsibility to test the suitability of the material for their application. Any recommendations for use are for guidance only and are offered without warranty or guarantee. Subject to change without notice.

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# ARA - TEXFLEX DUO

## Product description

ARA - TEXFLEX DUO is a double-walled protective sleeve. ARA - TEXFLEX DUO is suitable for bundling cables or mechanical and thermal protection. The basic sleeve gets covered by a special process with a thermally and mechanically highly resistant aramid fibre. The fixation between inner and outer sleeve is a high temperature resistant silicone. ARA - TEXFLEX DUO shows excellent resistance to fuels and lubricants. Due to its good stability and buckling resistance it is most convenient for long cable sets. Its combination of aramid with its outstandig mechanical properties and textile glass with very good thermal properties results in an ideal combination for a protection sleeve, also considering the cost aspect. On extreme situations a thermal load capacity is possible up to 235°C. It is possible that the colour (orange) will change at temperatures above 210°C.

## Application properties

| Property | Standard | Test requirements | Result |
|---|---|---|---|
| Flame resistance | FMVSS 302 | Flame height 38 mm<br>Flame exposure 15s | Self-extinguishing |

## Ageing

| Property | Standard | Test requirements | Result |
|---|---|---|---|
| Short-term ageing 240h / 235°C | LV 312-3 | Winding test | Requirements achieved |

## Mechanical / physical properties

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

## 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
In use and disposal of the ARA - TEXFLEX DUO protective sleeve there are no environmentally relevant co-products expected

## BIW-Standard dimensions

**ARA - TEXFLEX DUO (Code: ATF)**

On demand individual colours and dimensions available at any time

| ID [mm] | Tol. ID [mm] | Wd [mm] | Tol. Wd [mm] | Ring [m] |
|---|---|---|---|---|
| 10.0 | ±0.50 | 1.60 | ±0.30 | 50 |
| 11.0 | ±0.50 | 1.60 | ±0.30 | 50 |
| 12.0 | ±0.50 | 1.90 | ±0.30 | 50 |
| 13.0 | ±0.50 | 1.90 | ±0.30 | 50 |
| 14.0 | ±0.50 | 1.90 | ±0.30 | 25 |

(Continued on the next page)



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# ARA - TEXFLEX DUO

## BIW-Standard dimensions

**ARA - TEXFLEX DUO (Code: ATF)**

On demand individual colours and dimensions available at any time

| ID [mm] | Tol. ID [mm] | Wd [mm] | Tol. Wd [mm] | Ring [m] |
|---|---|---|---|---|
| 15.0 | ±0.50 | 1.90 | ±0.30 | 25 |
| 16.0 | ±0.50 | 1.90 | ±0.30 | 25 |
| 17.0 | ±0.50 | 1.90 | ±0.30 | 25 |
| 18.0 | ±0.50 | 1.90 | ±0.30 | 25 |
| 19.0 | ±0.50 | 1.90 | ±0.30 | 25 |
| 20.0 | ±0.50 | 1.90 | ±0.30 | 25 |
| 21.0 | ±0.50 | 1.90 | ±0.30 | 25 |
| 22.0 | ±0.50 | 2.20 | ±0.50 | 25 |



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