

BIW Isolierstoffe GmbH

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Certified management system by:

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



*When it comes
to competence*

TECHNICAL DATASHEET

INDUSTRIES AND APPLICATIONS



ARA - TEXFLEX TRIO

Typical uses

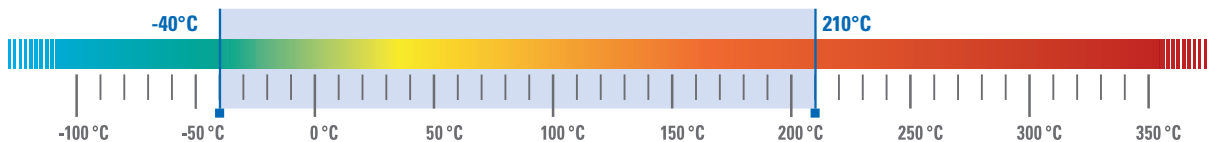
- Automotive industry
- Crash protection
- E-mobility / hybrid
- Cable manufacture
- Line protection
- Commercial vehicles

Key properties

- Long-term heat resistance of -40°C to +210°C
- Short-term heat resistance up to +235°C
- Institute-tested against marten bite
- Good abrasion behavior - class E - standard LV 312-3
- Very good resistance to fuels and lubricants, water, salt spray and cleaning agents of all types for temporary exposure
- High cut resistance
- Very high buckling and tear resistance
- Three-layer - thermally insulating
- Physiologically harmless
- Colour: orange, black
- Nominal diameter 10.0 mm to 20.0 mm



Application temperature



Product description

The ARA - TEXFLEX TRIO is a three-layer protective hose. The ARA - ISOTEX is especially well suited for bundling of lines or as mechanical and thermal contact protection. The basic tube is sheathed multiple times by a special method with an aramid fibre having high thermal and mechanical resistance. The fixation of the layers consists of a silicone with high temperature resistance. The thermal resistance even stands up to 300°C in extreme situations. At temperatures over 230°C, colour changes are possible. The ARA - TEXFLEX TRIO is distinguished by excellent resistance to fuels and lubricants. Due to its very good stability and kinking resistance, the ARA - TEXFLEX TRIO protective hose is suitable for the production of longer cable sets. The separate layers made of aramid, with its outstanding mechanical properties, and textile glass, with its very good thermal properties, yield an ideal combination even taking cost aspects into consideration. The ARA - TEXFLEX TRIO is a protective hose having a very high degree of wear protection (wearing class E) against mechanical stress. ARA - TEXFLEX TRIO is also best suited as a protection against marten gnawing and for use as crash protection.

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PAGE 1 OF 2

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Ageing

Property	Standard	Test requirements	Result
Short-term ageing 240h / 235°C	LV 312-3	Winding test	Requirements achieved
Long-term ageing 3000h / 210°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 E

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 TRIO protective sleeve there are no environmentally relevant co-products expected

BIW-Standard dimensions

ARA - TEXFLEX TRIO (Code: ATI)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
9.0	±0.5	2.50	±0.3	50
10.0	±0.5	2.50	±0.3	50
11.0	±0.5	2.50	±0.3	50
12.0	±0.5	2.50	±0.3	50
13.0	±0.5	2.50	±0.3	50
14.0	±0.5	2.50	±0.3	25
15.0	±0.5	2.50	±0.3	25
16.0	±0.5	2.50	±0.3	25
17.0	±0.5	2.50	±0.3	25
18.0	±0.5	2.50	±0.3	25
19.0	±0.5	2.50	±0.3	25
20.0	±0.8	2.50	±0.3	25