

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



ARA - TEX TRIO L

Typical uses

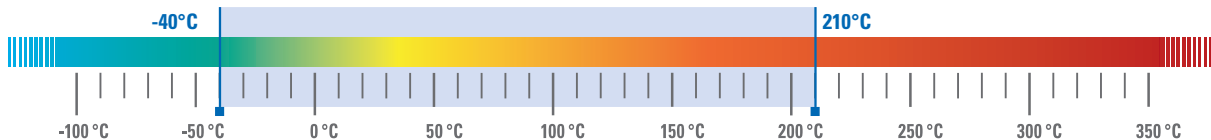
- Automotive industry
- Crash protection
- E-mobility / hybrid
- Cable manufacture
- Line protection

Key properties

- Long-term heat resistance of -40°C to +210°C
- Short-term heat resistance up to +235°C
- Abrasion class E, standard LV 312-3
- Very good protection against marten bite
- Very good resistance to fuels and lubricants, water, salt spray, cleaning agents as well as acids and alkalis for temporary exposure
- Good cut resistance and flexibility
- High bending and tensile strength
- Very high impact protection
- Triple-walled, thermally insulated
- Physiologically harmless
- Colour: orange, black
- Nominal diameter 10.0 mm to 20.0 mm



Application temperature



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ARA - TEX TRIO L

Product description

ARA – TEX TRIO L is a triple-walled protective sleeve. ARA – TEX TRIO L is suitable for bundling cables as well as mechanical and thermal protection especially for e-mobility. Several times the basic sleeve gets covered by a special process with a thermally and mechanically highly resistant aramid fiber. The fixation is a high temperature resistant silicone. On extreme situations a thermal load capacity is possible up to 235°C. Perhaps the colour (orange) will change at temperatures above 210°C. ARA – TEX TRIO L is characterized by 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 aramide with its outstanding mechanical properties and textile glass with very good thermal properties produces an ideal combination for a protection sleeve and also considering the cost aspect.

Application properties

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

Ageing

Property	Standard	Test requirements	Result
Short-term ageing 240h / 235°C	LV 312-3	Winding test	Requirement 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 – TEX TRIO L protective sleeve there are no environmentally relevant co-products expected

BIW-Standard dimensions

ARA - TEX TRIO L (Code: AT3)

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	1.50	±0.30	50
11.0	±0.50	1.50	±0.30	50
12.0	±0.50	1.50	±0.30	50
13.0	±0.50	1.50	±0.30	50

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BIW-Standard dimensions

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On demand individual colours and dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
14.0	±0.50	1.50	±0.30	25
15.0	±0.50	1.50	±0.30	25
16.0	±0.50	1.50	±0.30	25
17.0	±0.50	1.50	±0.30	25
18.0	±0.50	1.50	±0.40	25
19.0	±0.50	1.50	±0.40	25
20.0	±0.50	1.50	±0.30	25