

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 - ISOTEX

Typical uses

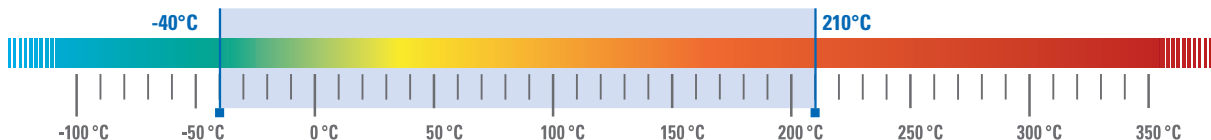
- Automotive industry
- Crash protection
- E-mobility / hybrid
- Cable manufacture
- Line protection
- Commercial vehicles

Key properties

- Long-term heat resistance of -40°C to $+210^{\circ}\text{C}$
- Short-term heat resistance up to $+235^{\circ}\text{C}$
- Abrasion classification D, standard LV 312-3
- Good resistance to fuels and lubricants, water, salt spray and cleaning agents during temporary exposure
- Good cut resistance
- High tensile strength
- Very high abrasion resistance
- Good buckling and bending resistance
- Thick-walled, thermally insulated
- Physiologically harmless
- Equal surface because of silicone coating for an easy cable assembly
- Nominal diameter 10,0 to 30,0 mm



Application temperature



- IATF16949
- ISO9001
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INDUSTRIES AND APPLICATIONS



ARA - ISOTEX

Product description

The ARA - ISOTEX is a thick-walled protective hose. The ARA - ISOTEX is suited for bundling of lines or as mechanical and thermal contact protection especially for E-mobility. The braided design is made up of special mixed fibres. The high-grade silicone coating of the ARA - ISOTEX is distinguished by its good resistance to fuels and lubricants. Due to its very good stability and kinking resistance, the ARA - ISOTEX protective hose is suited for the production of longer cable sets and as protection for hose lines. The special braided design and the thick walls of the ARA - ISOTEX ensure good thermal insulation, high resistance to cuts and good dielectric strengths. The ARA - ISOTEX is a protective hose that possesses a high degree of wear protection (wearing class D) against mechanical stress.

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 / 275°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 D

Ecology, Environment & Safety

Ingredients compliant with VDA requirements

IMDS listed

RoHS, GADSL compliant

Non-asbestos, textile fibers non-carcinogenic, non-hazardous to the environment, non-hazardous to water

When using and disposing of the ARA - ISOTEX protective sleeve there are no environmentally relevant co-products expected.

BIW-Standard dimensions

ARA - ISOTEX (Code: ARS)

On demand individual colours and dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
10.0	±0.5	1.0	±0.2	50
11.0	±0.5	1.5	±0.3	50
12.0	±0.5	1.5	±0.3	50
13.0	±0.5	1.5	±0.3	50
14.0	±0.5	1.5	±0.3	50

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ARA - ISOTEX

BIW-Standard dimensions

ARA - ISOTEX (Code: ARS)

On demand individual colours and dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
15.0	±0.5	1.5	±0.3	50
16.0	±0.5	1.5	±0.3	50
17.0	±0.5	1.5	±0.3	50
18.0	±0.5	1.5	±0.3	50
19.0	±0.5	1.5	±0.3	50
20.0	±0.5	1.5	±0.3	25
21.0	±0.7	1.8	±0.3	25
22.0	±0.7	1.8	±0.3	25
23.0	±0.7	1.8	±0.3	25
24.0	±0.7	1.8	±0.3	25
25.0	±0.7	1.8	±0.3	25
26.0	±0.7	1.8	±0.3	25
27.0	±0.7	1.8	±0.3	25
28.0	±0.7	1.8	±0.3	25
29.0	±0.7	1.8	±0.3	25
30.0	±0.7	2.5	±0.4	25