

BIW Isolierstoffe GmbH

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Certified management system by:

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001



TECHNICAL DATASHEET

INDUSTRIES AND APPLICATIONS



ARA - ISOTEX L

Typical uses

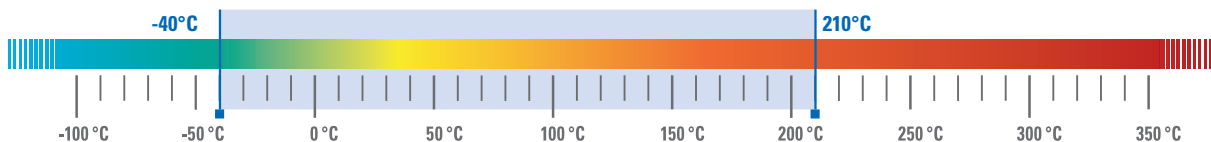
- Automotive industry
- Crash protection
- E-mobility / hybrid
- Cable manufacture
- Line protection
- Commercial vehicles

Key properties

- Long-term heat resistance of -40°C to +210°C
- Short-term heat resistance up to +235°C
- Abrasion classification D, standard LV 312-3
- Good resistance to fuels and lubricants, water, salt spray and cleaning agents
- High cut resistance and flexibility
- High tensile strength
- Good buckling and bending resistance
- Thick-walled, thermally insulated
- Good crash protection
- Radially extensible
- Physiologically harmless
- Colour: orange, black
- Nominal diameter 10.0 mm to 30.0 mm



Application temperature



- IATF16949
- ISO9001
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INDUSTRIES AND APPLICATIONS



ARA - ISOTEX L

Product description

ARA - ISOTEX L is a thick-walled protective sleeve. ARA - ISOTEX L is suitable for bundling cables or mechanical and thermal shock protection especially for E-mobility. The plaited construction consists of a special blend fibre with a fixation of high temperature resistant silicone resin. The high quality silicone coating of ARA - ISOTEX L is characterized by a good resistance to fuels and lubricants. The ARA - ISOTEX L protective sleeve is suited for packaging long cable looms or protection for sleeve lines, because of its good stability and buckling resistance. Excellent thermal insulation, high cut resistance and good dielectric strength results from the special plaited construction and the thick walls of ARA - ISOTEX L. ARA - ISOTEX L is a protective sleeve with high abrasion resistance (abrasion classification D) against mechanical stress.

Application properties

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

Ageing

Property	Standard	Test requirements	Result
Short-term ageing 375h / 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 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 L protective sleeve there are no environmentally relevant co-products expected

BIW-Standard dimensions

ARA - ISOTEX L (Code: ARR)

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	1.00	±0.30	50
11.0	±0.50	1.90	±0.40	50
12.0	±0.50	1.90	±0.40	50
13.0	±0.50	1.90	±0.40	50
14.0	±0.50	1.90	±0.40	25

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*When it comes
to competence*

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ARA - ISOTEX L

BIW-Standard dimensions**ARA - ISOTEX L (Code: ARR)**

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	±0.40	25
16.0	±0.70	1.90	±0.40	25
17.0	±0.70	1.90	±0.40	25
18.0	±0.70	1.90	±0.40	25
19.0	±0.70	1.90	±0.40	25
20.0	±0.70	1.90	±0.40	25
21.0	±0.80	1.90	±0.40	25
22.0	±0.80	1.90	±0.40	25
23.0	±0.80	1.90	±0.40	25
24.0	±0.80	1.90	±0.40	25
25.0	±0.80	1.90	±0.40	25
26.0	±0.80	1.90	±0.40	25
27.0	±0.80	1.90	±0.40	25
28.0	±0.80	1.90	±0.40	25
29.0	±0.80	1.90	±0.40	25
30.0	±0.80	2.50	±0.40	25