

## 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 L

### Typical uses

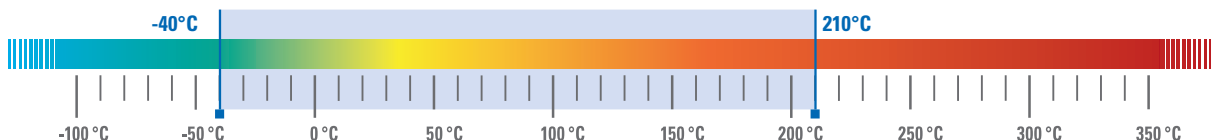
- Automotive industry
- Crash protection
- E-mobility / hybrid
- Cable manufacture
- Line protection
- Commercial vehicles

### 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



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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