

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001

INDUSTRIES AND APPLICATIONS



ARA - TEX DUO

Typical uses

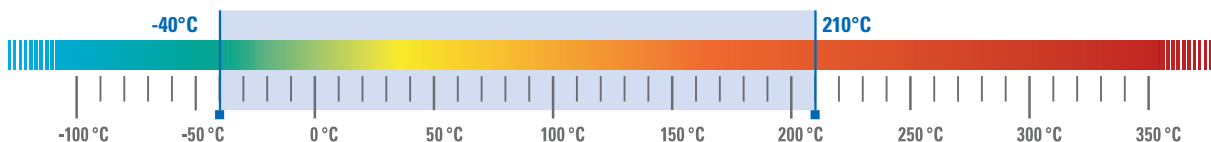
- Automotive industry
- Crash protection
- E-mobility / hybrid
- Cable manufacture
- Line protection
- Commercial vehicles

Key properties

- Long-term heat resistance of -40°C to +210°C
- Short-term heat resistance up to +235°C
- Very good protection against marten bite
- Good abrasion behavior under mechanical stress
- Good resistance to water, cleaning agents and salt spray
- Good resistance to fuels and lubricants for temporary exposure
- High impact protection
- High cut resistance, good flexibility
- High bending and tensile strength
- Double-walled, thermally insulated
- Physiologically harmless
- Colour: orange or black
- Nominal diameter 10.0 mm to 24.0 mm



Application temperature



- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001

INDUSTRIES AND APPLICATIONS



ARA - TEX DUO

Product description

ARA - TEX DUO is a double-walled protective sleeve. ARA – TEX DUO is suitable for bundling cables or mechanical and thermal shock protection especially for E-mobility. The basic sleeve gets covered by a special process with a thermally and mechanically highly resistant aramid fibre. In extreme situations a thermal load capacity is possible up to 300°C. It is possible that the colour (orange) will change at temperatures above 210°C. The fixation consists of a heat-resistant resin impregnation. ARA - TEX DUO shows excellent resistance to fuels and lubricants. Due to its good stability and buckling resistance it is most convenient for long cable sets. The combination of aramide and outstanding mechanical properties and textile glass with very good thermal properties produces an ideal combination for a protection sleeve, also considering the cost aspect.

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 240h / 235°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 B

Compatibilities

Medium	Standard	Test requirements	Result
Ad Blue	LV 312-3	Storage at 95°C Storage time 375h	Requirements achieved

Ecology, Environment & Safety

Ingredients compliant with VDA - requirements

IMDS listed

RoHS, GADSL compliant

Non-asbestos, textile fibers non-carcinogenic, non hazardous to the environment, not hazardous to water

When using and disposing of the ARA - TEX DUO protective sleeve there are no environmentally relevant by-products expected.

BIW Isolierstoffe GmbH

Pregelstraße 2-5
 D-58256 Ennepetal
 Tel.: +49 (2333) 8308-0
 Fax.: +49 (2333) 8308-10
 info@biw.de
 www.biw.de

Certified management system by:

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001



*When it comes
to competence*

TECHNICAL DATASHEET

INDUSTRIES AND APPLICATIONS



ARA - TEX DUO

BIW-Standard dimensions**ARA - TEX DUO (Code: ATD)**

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
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	±0.30	25
19.0	±0.50	1.50	±0.30	25
20.0	±0.50	1.50	±0.30	25
21.0	±0.50	1.50	±0.30	25
22.0	±0.50	1.50	±0.30	25
23.0	±0.50	1.50	±0.30	25
24.0	±0.50	2.50	±0.40	25