

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



ISOTEX LI

Typical uses

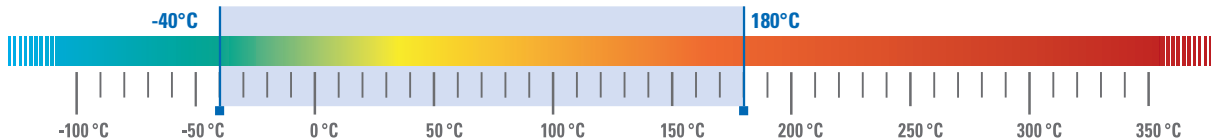
- Automotive industry
- E-mobility / hybrid
- Electrical motors construction
- Cable manufacture
- Stator construction

Key properties

- Long-term heat resistance of -40°C to $+180^{\circ}\text{C}$
- Short-term heat resistance up to $+205^{\circ}\text{C}$
- Horizontal self-extinguishing
- Good resistance to water, salt spray, cleaning agents, transformer oil, impregnating resins as well as to fuels and lubricants during temporary exposure
- Very good fibre glass impregnation by special immersion process
- Good cut resistance
- Flexible
- Nominal diameter 0,5 mm to 30,0 mm



Application temperature



Product description

The protective hose ISOTEX LI consists of a glass silk braid (textile glass) and a silicone impregnation that is applied in a special immersion process. The coating material is a silicone which in various versions ensures short-term temperature resistance of up to 205°C . Due to the silicone impregnation, the textile glass filaments are excellently soaked, thereby ensuring that no fibreglass dust is given off during production (cutting, chopping, etc.). The combination of a textile glass braid and silicone results in exceptional elasticity, flexibility and extensibility of the ISOTEX LI protective hose. The ISOTEX LI can be worked very well in cable production.

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ISOTEX LI

Application properties

Property	Standard	Test requirements	Result
Electrical strength	DIN EN 60684	Test at room temperature	ca. 1,0 kV
Flame resistance	FMVSS 302	Flame height 38 mm Flame exposure 15 s	Self-extinguishing

Mechanical / physical properties

Property	Standard	Test requirements	Result
Abrasion resistance	LV 312-3	Test at room temperature	Classification A

Compatibilities

Medium	Standard	Test requirements	Result
Ad Blue	Based on DIN EN 60684 LV 312-3	Storage time 24h at room temperature Chemical externally spread	Requirements achieved
Break fluid	Based on DIN EN 60684 LV 312-3	Storage time 24h at room temperature Chemical externally spread	Requirements achieved
Diesel	Based on DIN EN 60684 LV 312-3	Storage time 24h at room temperature Chemical externally spread	Requirements achieved
Radiator antifreeze	Based on DIN EN 60684 LV 312-3	Storage time 24h at room temperature Chemical externally spread	Requirements achieved
Multigrade engine oil	Based on DIN EN 60684 LV 312-3	Storage time 24h at room temperature Chemical externally spread	Requirements achieved
Grease	Based on DIN EN 60684 LV 312-3	Storage time 24h at room temperature Chemical externally spread	Requirements achieved
Water-Glycol-mixture	Based on DIN EN 60684 LV 312-3	Storage time 24h at room temperature Chemical externally spread	Requirements achieved

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ISOTEX LI

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, non-hazardous to water

When using and disposing the ISOTEX LI protective sleeve there are no environmentally relevant by-products expected.

BIW-Standard dimensions

ISOTEX LI (Code: GSL)

On demand individual colours and dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
0.5	±0.1	0.3	±0.1	100
1.0	±0.2	0.3	±0.1	100
2.0	±0.2	0.3	±0.1	100
3.0	±0.2	0.3	±0.1	100
4.0	±0.2	0.3	±0.1	100
5.0	±0.3	0.4	±0.15	100
6.0	±0.3	0.4	±0.15	100
7.0	±0.3	0.4	±0.15	50
8.0	±0.3	0.5	±0.15	50
9.0	±0.3	0.5	±0.15	50
10.0	±0.3	0.5	±0.15	50
11.0	±0.4	0.5	±0.15	50
12.0	±0.4	0.5	±0.15	50
15.0	±0.4	0.5	±0.15	50
20.0	±0.4	0.6	±0.15	25
25.0	±0.5	0.7	±0.15	25
30.0	±0.5	1.0	±0.20	25