

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001

## INDUSTRIES AND APPLICATIONS



## ISOTEX LI

### Typical uses

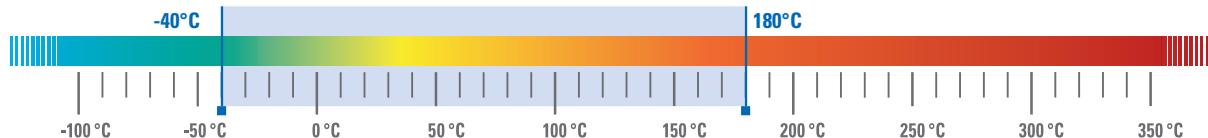
- Automotive industry
- E-mobility / hybrid
- Electrical motors construction
- Cable manufacture
- Stator construction

### Key properties

- Long-term heat resistance of  $-40^{\circ}\text{C}$  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  $205^{\circ}\text{C}$ . 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