

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001

INDUSTRIES AND APPLICATIONS



ISOTEX L 300R

Typical uses

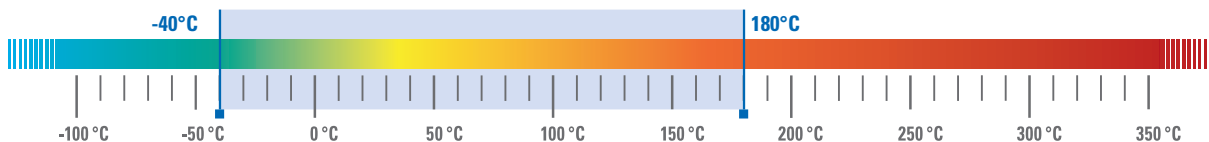
- Automotive industry
- E-mobility / hybrid
- Electrical insulation
- Cable manufacture
- Line protection

Key properties

- Long-term heat resistance of -40°C to +180°C
- Short-term heat resistance up to +205°C
- Temperature resistance to radiant heat up to +330°C
- Very good flexibility and stretchability
- Good buckling properties
- Physiologically harmless
- Free of softeners
- Good resistance to water, water-glycol mixture, salt spray, as well as to fuels and lubricants during temporary exposure
- Colour: silver
- Nominal diameter 0.50 mm to 60 mm



Application temperature



Product description

The ISOTEX L 300R insulating hose is a combination of a braided textile glass fibre and silicone (LSR) coating. This design ensures exceptional roundness for simple processing in cable production. The resistance to high temperatures is extraordinary thanks to the use of a special aluminium-based silicon with corresponding heat reflection properties. The ISOTEX L 300R is distinguished by great flexibility and good radial extension. With this flexible combination of textile glass fibre braid and silicone (LSR), the ISOTEX L 300R is thus primarily suited for use with short cable sets when there are constricted installation conditions and special requirements in cable production.

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ISOTEX L 300R

Application properties

Property	Standard	Test requirements	Result
Flame resistance	LV 312-3 FMVSS 302	Flame height 38 mm Flame exposure 15s	Self-extinguishing, classification B

Ageing

Property	Standard	Test requirements	Result
Short-term ageing 240h / 205°C	LV 312-3	Winding test	Requirements achieved
Long-term ageing 3000h / 180°C	LV 312-3	Winding test	Requirements achieved

Mechanical / physical properties

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

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 of the ISOTEX L 300R protective sleeve there are no environmentally relevant by-products expected.

BIW-Standard dimensions

ISOTEX L 300R (Code: GSY)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
0.5	±0.2	0.3	±0.2	200
1.0	±0.2	0.5	±0.2	200
2.0	±0.3	0.5	±0.2	200
3.0	±0.3	0.5	±0.3	200
4.0	±0.3	0.5	±0.3	200
5.0	±0.3	0.5	±0.3	200
6.0	±0.3	0.6	±0.3	200
7.0	±0.3	0.6	±0.3	100
8.0	±0.3	0.6	±0.3	100
9.0	±0.3	0.6	±0.3	100
10.0	±0.5	0.7	±0.3	100

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ISOTEX L 300R

BIW-Standard dimensions

ISOTEX L 300R (Code: GSY)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
11.0	±0.5	0.7	±0.3	100
12.0	±0.5	0.7	±0.3	100
13.0	±0.5	0.7	±0.3	100
14.0	±0.5	0.7	±0.4	100
15.0	±0.5	0.7	±0.4	100
16.0	±0.7	0.8	±0.4	100
17.0	±0.7	0.8	±0.4	50
18.0	±0.7	0.8	±0.4	50
19.0	±0.7	0.9	±0.4	50
20.0	±0.7	0.9	±0.4	50
21.0	±0.7	0.9	±0.5	50
22.0	±0.7	0.9	±0.5	50
23.0	±0.7	0.9	±0.5	50
24.0	±0.7	0.9	±0.5	50
25.0	±1.0	1.2	±0.5	25
26.0	±1.0	1.2	±0.5	25
27.0	±1.0	1.2	±0.5	25
28.0	±1.0	1.2	±0.5	25
29.0	±1.0	1.2	±0.5	25
30.0	±1.2	1.5	±0.5	25
31.0	±1.2	1.5	±0.7	25
32.0	±1.2	2.0	±0.7	25
33.0	±1.2	2.0	±0.7	25
60.0	±2.5	3.0	±0.7	5