

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
- IIP (Investors in People)



*When it comes
to competence*

TECHNICAL DATASHEET

INDUSTRIES AND APPLICATIONS



MARDERWRAP SK

Typical uses

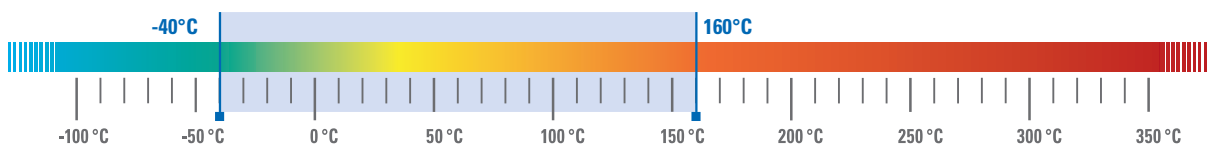
- Automotive industry
- E-mobility / hybrid
- Cable manufacture
- Line protection
- Commercial vehicles

Key properties

- Temperature resistance on the hose surface -40°C to max. +160°C
- Long-term temperature resistance of the textile glass fibre -40°C to +275°C
- Short-term heat resistance of the textile glass fibre up to +300°C
- Peaktemperature resistance of the textile glass fibre up to 450°C
- Including self-adhesive feature (serves as a fitting aid)
- Recommended (inner) bending radius in the application (installation) >60mm / bending angle max. 40°
- Good protection against marten bites
- Good resistance of the textile glass fibre to water and salt spray mist as well as fuels and lubricants at temporary effect
- Thick walled, insulated
- Good buckling resistance
- High cut resistance
- Good abrasion resistance
- Colour: nature, black
- Nominal diameter 16.0 mm to 26.0 mm



Application temperature



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
- IIP (Investors in People)



TECHNICAL DATASHEET

INDUSTRIES AND APPLICATIONS



MARDERWRAP SK

Product description

The MARDERWRAP SK protective hose consists of high-thermal-resistance, specially braided textile glass fibres with a special impregnation made of silicone resin. The combination of this material allows use of MARDERWRAP SK in the automotive industry as a line protection against marten gnawing. Temperatures of >160°C which contact the product directly result in a softening of the acrylate adhesive of the self-adhesive feature. In this situation, there is the possibility of the adhesive joint coming open. Excessive bending or kinking of the MARDERWRAP SK in the installation situation can also cause the glue joint to come open. In the application (installation), a bending radius of >60 mm at a bending angle of von max. 40° is recommended. MARDERWRAP SK is a so-called "INSULATION PROTECTION SYSTEM" and therefore is very well suited for retrofit installation. Simply place MARDERWRAP SK around an already laid cable strand and seal it closed using the self-adhesive feature (fitting aid). Thanks to the "Fingerlift", the liner can easily be detached from the adhesive strip. In addition, there is the option of preventing the point of adhesion from opening by means of self-adhesive tape. The SK tape with a silicone adhesive, which has a temperature resistance of approx. 180°C, is easy to wrap around the MARDERWRAP SK at various points. The MARDERWRAP SK (textile glass fibre) is also distinguished by good resistance to short-term contact with fuels and lubricants. MARDERWRAP SK is suitable for installation on longer cable sets. MARDERWRAP SK is also designed as a crash-protection hose without defined dielectric strength.

Application properties

Property	Standard	Test requirements	Result
Flame resistance	Based on FMVSS 302	Flame height 38 mm Flame exposure 15s	Self-extinguishing

Ageing

Property	Standard	Test requirements	Result
Short-term ageing 240h / 160°C	BIW self-test	Biegeradius >60mm Biegewinkel max. 40° 240h at 160°C	Requirements achieved

Mechanical / physical properties

Property	Standard	Test requirements	Result
Abrasion resistance	LV 312-3	Temperature 23°C Frequenz 8 Hz Kraft 7N	Classification A

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.

The textile glass fibre requires compliance with the industrial hygiene. Workplace ventilation has to be turned away from the worker, sensitive individuals may get slight skin irritation.

When using and disposing the Marderwrap SK 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
- IIP (Investors in People)



TECHNICAL DATASHEET

INDUSTRIES AND APPLICATIONS



MARDERWRAP SK

BIW-Standard dimensions

MARDERWRAP SK (Code: GHK)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
16.0 for 12.0 / ±0.70	Overlapping ca. 11 mm	1.0	±0.30	Length 100 mm to 1000 mm
18.0 for 14.0 / ±0.70	Overlapping ca. 11 mm	1.0	±0.30	Length 100 mm to 1000 mm
20.0 for 16.0 / ±0.80	Overlapping ca. 11 mm	1.0	±0.30	Length 100 mm to 1000 mm
22.0 for 18.0 / ±0.80	Overlapping ca. 11 mm	1.0	±0.30	Length 100 mm to 1000 mm
24.0 for 20.0 / ±1.00	Overlapping ca. 11 mm	1.0	±0.30	Length 100 mm to 1000 mm
26.0 für 22.0 / ±1.00	Overlapping ca. 11 mm	1.0	±0.30	Length 100 mm to 1000 mm