

## BIW Isolierstoffe GmbH

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## Certified management system by:

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001
- IIP (Investors in People)



*When it comes  
to competence*

TECHNICAL DATASHEET

## INDUSTRIES AND APPLICATIONS



# ALUWRAP PET

## Typical uses

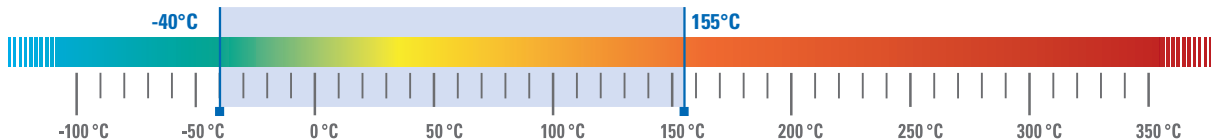
- Automotive industry
- E-mobility / hybrid
- Cable manufacture
- Line protection

## Key properties

- Long-term heat resistance of -40°C to +155°C
- Short-term heat resistance up to +180°C
- Temperature resistance to radiant heat up to +600°C
- Reflection of thermal radiation by aluminium surface
- Self-extinguishing according to FMVSS 302
- Good resistance to water
- Conditionally resistance to fuels
- Good buckling and bending resistance
- Good flexibility
- High abrasion resistance
- Physiologically harmless
- Silver-coloured, aluminium-coloured
- PET colour black or orange
- Nominal diameter 10,0 mm to 35,0 mm



## Application temperature



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INDUSTRIES AND APPLICATIONS



**ALUWRAP PET**

**Product description**

ALUWRAP PET protective hoses are longitudinally open and can be closed by means of the self-adhesive closing strip, rolled hoses of especially temperature-resistant PET braided strip with pure aluminium clad surface. The aluminium cladding of the surface results in an excellent degree of reflection of radiated heat and even with partial overheating offers excellent protection against heat radiation. The aluminium cladding is self-adhesive in the covering and is furnished with an acrylate adhesive. ALUWRAP PET protective hoses have good resistance to water and are somewhat resistant (short-term partial contact) to fuels and oil. ALUWRAP PET protective hoses are especially well suited to protection from radiated heat from neighboring components such as in the engine compartment. Thanks to the use of ALUWRAP PET protective hoses, lines and cable trees absorb no heat or much less heat from neighboring hot components. The ALUWRAP PET protective hose is self-extinguishing according to FMVSS 302.

**Application properties**

Property	Standard	Test requirements	Result
Flame resistance	FMVSS 302	Flame height 38 mm Flame exposure 15s	Self-extinguishing, fire classification C
Radiant heat	Self-test	IR ceramic spotlight 600°C Distance spotlight 20 mm Test time 24h	Inner sleeve temperature ca. 70°C

**Mechanical / physical properties**

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

**Ecology, Environment & Safety**

Ingredients compliant with VDA requirements  
 IMDS listed  
 RoHS, GADSL compliant  
 Non-asbestos, no hazardous material, non-carcinogenic, non-hazardous to the environment, not hazardous to water  
 land-fill disposable, no decomposing

**BIW-Standard dimensions**

**ALUWRAP PET (Code: AWG)**

ALUWRAP is available in individually cut lengths

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
10.0	Overlapping 90°+40°-25°	0.4	±0.2	production lengths
15.0	Overlapping 90°+40°-25°	0.7	±0.3	production lengths
20.0	Overlapping 90°+40°-25°	0.7	±0.3	production lengths
25.0	Overlapping 90°+40°-25°	0.7	±0.3	production lengths
30.0	Overlapping 90°+40°-25°	0.7	±0.3	production lengths

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**ALUWRAP PET**

## BIW-Standard dimensions

### ALUWRAP PET (Code: AWG)

ALUWRAP is available in individually cut lengths

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
35.0	Overlapping 90°+40°-25°	1.0	±0.4	production lengths