ONSERT® Key-facts

BOLLHOFF

Joining technology

Fast and process reliable bonding of fasteners

Designs

Plastic-metal versions

Plastic versions

ONSERT® studs

ONSERT® inserts

ONSERT® cable management

ONSERT® specials











■ PA PACM 12







Plastic moulding

Metal part*

- Steel with zinc-nickel Alloy EN AW-6061-T6 coating, sizes M5 and M6
- Alloy A286 (passivated, 0.1900-32)

■ PA PACM 12

- PA PACM 12
- with X5CrNi18-10HC (1.4301, 0.1900-32)
- Plastic PA PACM 12
- Bottom part ■ PA PACM 12
 - Upper part* PEI

PA

Advantages

Adhesive

Fast curing and immediate strength

One-component acrylate (modified)

■ Compliant with RoHS Directive 2017/2102/EU ■ Fast curing — full strength within seconds ■ Compliant with FAR 25 and ANSI/UL 94

- No visual impact on sensitive surfaces
- Applicable if thermal processes cannot be used
- One-component adhesive no mixing of adhesives
- Manual and automated processing systems available

Manual bonding process



Application of the adhesive to the ONSERT® fastener



Insertion of the ONSERT® fastener into the tool holder



Placing the tool on the substrate



Tool removal and assembly

Limitations

- Permanent ambient temperature < 90 °C
- For metals: AL, steel after e-coating or
- For plastics: epoxy-based composites, PC. PA
- For glass: with or without paint

^{*} Others on request

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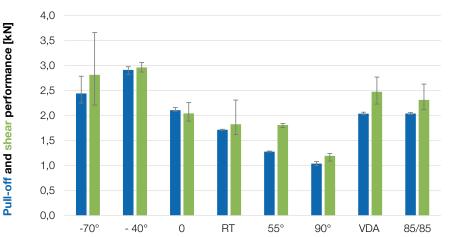
Parameters

Product type	ONSERT® stud, M5 x 15,5 mm
Item code	4830 105 0010
Plastic moulding	PA PACM 12
Metal part	steel
Surface	ZiNi
Adhesive	4839 100 4175
Amount	0.25 g
Tooling	Portable Mini, 8 sec., 90%
Substrate	aluminium
Surface	sanded
Thickness	4 mm



Typical type of failure





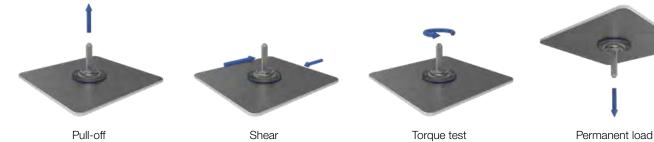
Properties to be confirmed under customer specific conditions

Further characteristics*

Salt spray tests	DIN EN ISO9227 - 1,000 h
Static load	5 kg during 30 days at 90 °C
Torque out:	7.5 Nm

- Dynamic test acc. to RTCA-DO 160F Ch. 8 200g
- Dynamic test acc. to RTCA-DO 160F Ch. 7 200g
- Nose wheel imbalance tests acc. to ABD 0100.1.2 200g
- Fluid susceptibility acc. to DO 160 G Sec. 11.4
- Flammability in acc. FAR 25-60 sec. vert. (materials)

Load case



^{*} Not all characteristics apply to all combinations available