

# Overmolding of metal - apparent "adhesion" and tightness (VE)

As a reminder, without any specific surface (physical/chemical) treatment, there is intrinsically no (significant) adhesion between a metal insert overmolded with a thermoplastic. It might therefore be difficult to ensure some tightness at the interface, especially after the part was submitted to some thermal cycles. Since some customers have experienced and highlighted this issue in busbars, we run a few calculation to illustrate what's really happen when overmolding a metal insert or when a coating is applied on a metallic surface and how the design might affect this behavior. This is illustrated in the following [document](#) (focused on VE only, so far).

