

## **Design Freedom**

Compared to screws or rivets, the 3M VHB connections remain invisible

## **Insulation**

Thanks to the closed and complete bond, noises are inhibited and vibrations can be reduced

## **Even stress distribution**

Eliminates point loading compared to mechanical fasteners (screws, welding, rivets, clamps)

Glued connections distribute the forces evenly

No thermal distortion

The materials used can be made thinner (e.g. wall thickness for welding)

## **Leveling out of bumps**

Components are completely and seamlessly connected

No restoring forces, tension-free compensation of tolerances after the dwell time

Surface roughness and unevenness are compensated by viscoelastic adhesive (max. 50% of the adhesive tape thickness)

## **Connections of material combinations**

Different coefficients of thermal expansion can be compensated (e.g. plastic and metal)

Differences in the expansion are possible up to 300% of the adhesive tape thickness

## **Minimizing the risk of corrosion**

With 3M VHB adhesive tape, no holes are required for fastening, the surface protection (e.g. zinc, paint) is not damaged

## **Sealing function**

Protection against the penetration of dirt or water into the joint structure

## **Weight reduction**

Significant weight advantages compared to mechanical fastening

## **Quick and easy attachment**

Accelerates production processes and lowers labor costs – there is less preparatory work or rework

## **Individual customer solutions**

The 3M VHB adhesive tape is easy to cut and can be lasered into special shapes with our eurolaser machines