

# ALCOM<sup>®</sup> MS – ANTI SQUEAK

The science of silence



**Squeak noises of plastic components can finally be avoided effectively. The use of ALCOM<sup>®</sup> MS Anti Squeak prevents disturbing noises without the use of any lubricants or felt mats as it was done so far.**

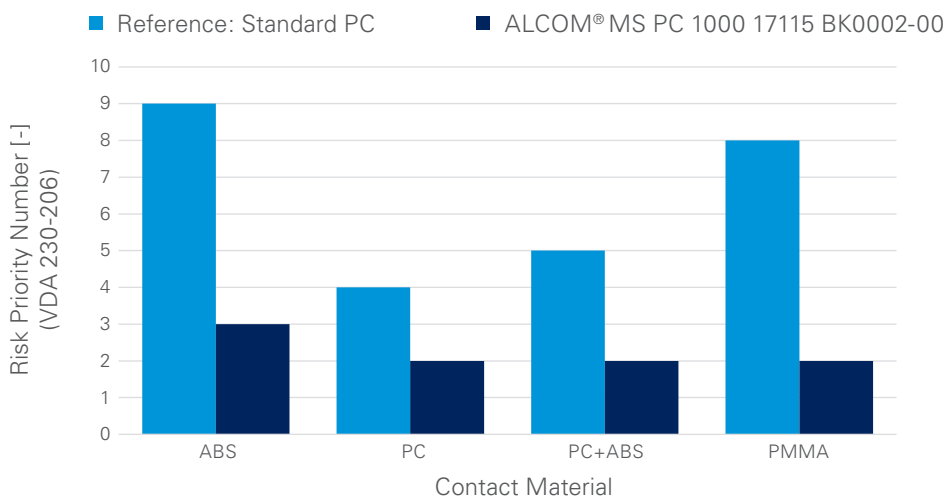
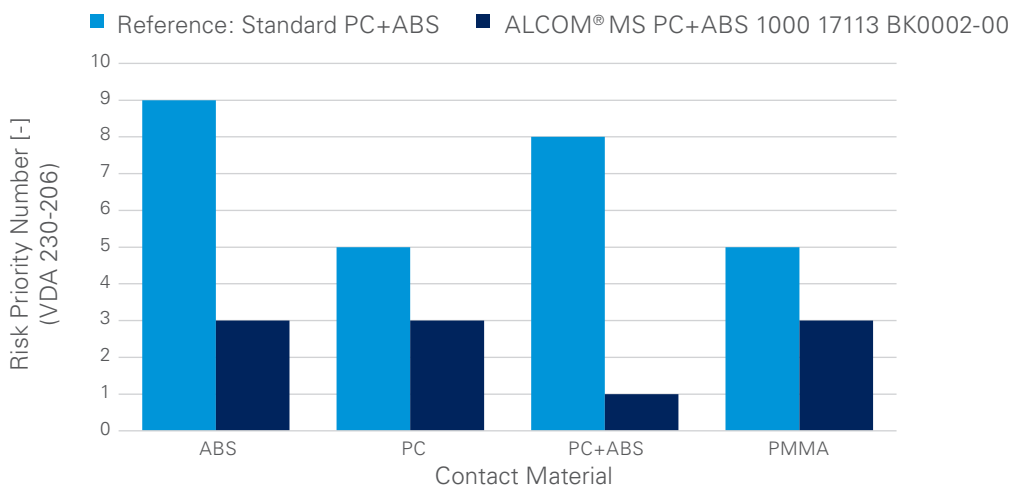
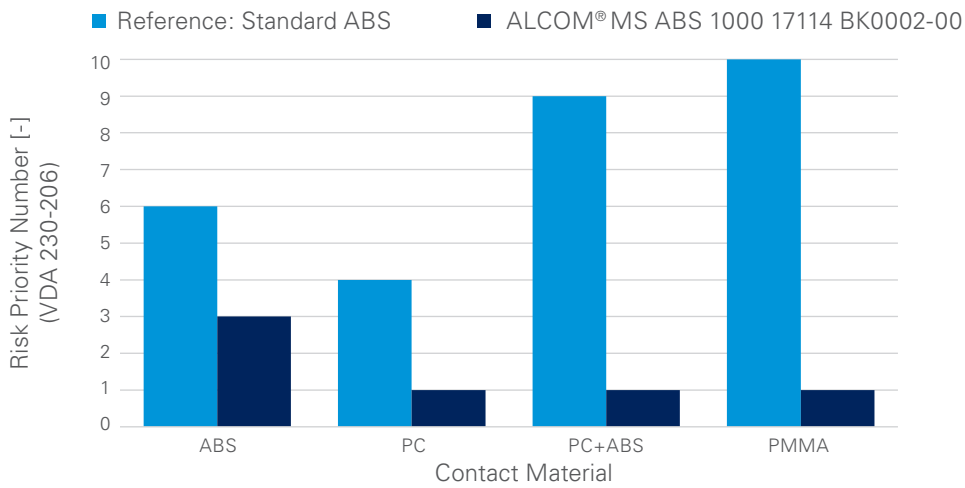
Disturbing noises can occur at contact of two plastic components due to the "stick-slip" effect. This means that two plastic components in contact switch between static and sliding friction which causes the typical squeaking / creaking noises. Current methods to avoid these noises are the use of lubricants or felt mats between the components in order to separate the plastic parts. Inconveniences are evident: additional process steps, contaminations by oil or enlarged constructions because of the additional thickness of felt mats make the prevention of disturbing noises complex and create additional costs. These additional process steps become redundant with ALBIS' ALCOM<sup>®</sup> MS Anti Squeak, special compounds based on PC, PC+ABS and ABS.

By innovative formulations of these materials, the stick-slip effect is prevented and the risk of squeaking noises is significantly reduced. This allows to preserve creative freedom in design of construction and increases haptic quality of applications. Noiselessness during operation becomes more and more important functional and decorative parts in the automotive interior sector, especially for electric and hybrid vehicles. Furthermore the new materials are used in the sector of small appliances such as remote controls, buttons and handhelds. Wherever plastic parts are in contact ALCOM<sup>®</sup> MS Anti Squeak can effectively prevent disturbing noises.

## **ALCOM<sup>®</sup> MS – ANTI SQUEAK: Benefits at a glance**

- Prevention of noises caused by stick-slip effect, effectiveness proven in contact with PC, PC+ABS, ABS und PMMA by "Ziegler-Test" (VDA 230-206)
- Retention of mechanical properties
- Cost reduction by elimination of additional process steps
- Paintability successfully proven

**Results VDA230-206 („Ziegler Test“) 10N / 1 mm/s**



Explanation: Risk Priority Number (RPN) 1 – 3 means low risk of stick-slip effect and squeak noises. Higher RPN indicate a high risk for noises. All tests after heat ageing (300h, 80°C).

**HEAD OFFICE**

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