



MOCOM

❖ Alcom® MS Modified Surface Variety in function

The Alcom® MS brand stands for different product groups with different functionalities, which are created by a specific surface modification. The properties range from excellent glossy to noiseless surfaces.

Alcom® MS – Anti Squeak

With this product series, squeaking and creaking noises can be effectively avoided in plastic components. 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 and creaking noises. The use of Alcom® MS Anti Squeak prevents the occurrence of unwanted noises through surface modification, therefore the use of lubricants or felt mats belong to the past.

Alcom® MS PA66+6I/X – Highly reinforced Nylon

The highly filled Alcom® MS PA66+6I/X compounds combine excellent surface gloss levels with high stiffness and strength. Alcom® MS is the preferred choice wherever high mechanical properties as well as an outstanding surface quality is required.

Furthermore, Alcom® MS PA66+6I/X is an optimal solution for metal replacement due to its extraordinary combination of very high stiffness, low water absorption, low shrinkage and warpage. Considerable cost and weight savings can be achieved.

Alcom® MS – Anti Squeak: the advantages at a glance

- Prevention of squeak noises, effectiveness tested by Ziegler test (VDA 230-206)
- Retention of mechanical properties
- Cost reduction by elimination of additional process steps
- Paintability successfully proven

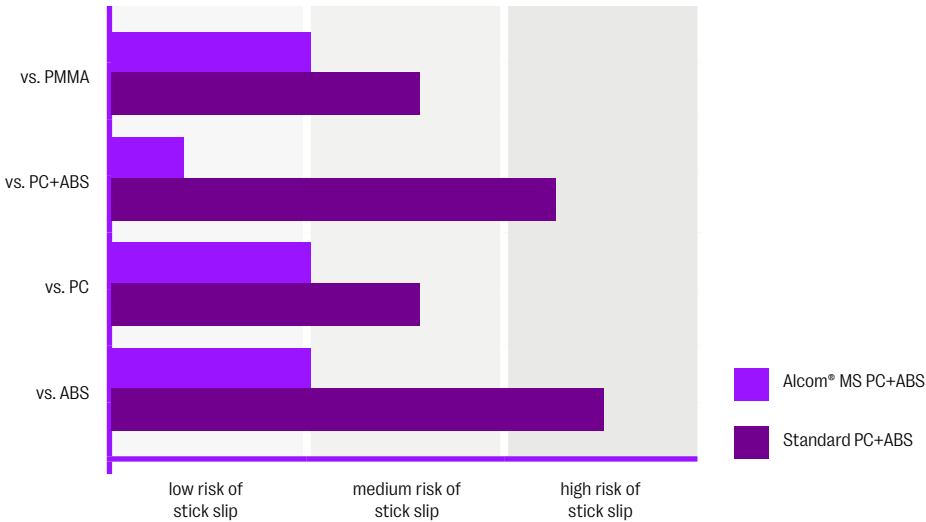
Alcom® MS PA66+6I/X: the advantages at a glance

- Excellent surface quality at high filler level
- High stiffness and strength
- Low shrinkage
- Dimensional stability and low warpage
- Mold in color, no painting necessary

Alcom® MS – Anti Squeak

Comparison of the noise risk of Alcom® MS to standard*

Material
Alcom® MS PC 1000 17115 BK0002-00
Alcom® MS ABS 1000 17114 BK0002-00
Alcom® MS PC+ABS 1000 17113 BK0002-00



* risk priority index according to VDA230-206

Alcom® MS PA66+6I/X – Highly reinforced Nylon

Material		Tensile modulus (dry/cond.) (MPa)	Tensile strength (dry/cond.) (MPa)	Tensile strain at break (dry/cond.) (%)
Alcom® MS PA66+6I/X	2030 UV 18054 BK0002-00	9000 / -	165 / -	2.4 / -
	2050 UV 17159 BK0002-00	17000 / 13500	- / 180	2.5 / 3.3
	2060 UV 17066 BK0002-00	21000 / 17000	250 / 200	2 / 3
	2040 FR GY1185-19	15500 / -	160 / -	1.5 / -
Alcom® MS PA6	2030 UV SB1181-19	9400 / -	155 / -	2.7 / -
	2050 UV 19021 BK0002-00	16500 / -	220 / -	2.6 / -



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