

ALCOM[®] MS PA66+6I/X – MODIFIED SURFACES

Highly reinforced Nylon for esthetical surfaces



Highly reinforced ALCOM[®] MS PA66+6I/X compounds combine excellent surface gloss levels with high stiffness and strength.

Wherever high mechanical properties and an outstanding surface quality are required, ALCOM[®] MS PA66+6I/X is the first choice. Especially in visible automotive applications like center consoles, air ducts or key housings, ALCOM[®] MS PA66+6I/X demonstrates excellent performance.

ALCOM[®] MS PA66+6I/X can also bring similar benefits in electrical and electronic applications like coffee machine parts or camera housings.

When looking at materials for metal replacement, properties such as high stiffness and low shrinkage are particularly valued. Its low water absorption and low warpage characteristics are additional benefits in this area. Processing is equal to standard PA66 so that no special equipment is required.

ALCOM[®] MS PA66+6I/X: advantages at a glance

- Excellent surface quality at high filler level
- High stiffness and strength
- Good chemical resistance
- Low shrinkage
- Dimensional stability & low warpage
- Mold in color, no painting necessary
- 2K overmolding & bonding with TPE's possible

Properties	Norm	Dimension	ALCOM® MS PA66+6I/X 2050 16021 BK [dry/conditioned]	Competition [dry/conditioned]	PA66 GF50 Standar [dry/conditioned]
Tensile E-modulus	ISO 527	MPa	17,000 / 13,500	17,000 / 13,500	16,800 / 12,500
Tensile strength	ISO 527	MPa	240 / 190	240 / 190	240 / 180
Tensile strain @ break	ISO 527	%	2.5 / 3.0	2.2 / 2.7	2.5 / 3.5
Charpy impact, unnotched	ISO 179	kJ/m ²	90 / 93	85 / 81	95 / 100
Density	ISO 1183	ccm	1.60	1.60	1.56
Water absorption saturated	ISO 62	%	3.76	3.68	4.3
Shrinkage	ISO 294-2	%	0.2 – 0.3	0.2 – 0.5	0.35 – 0.95

Additional information are available on request.

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