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# Product Datasheet

## Hygienic PVC Sheets

Marvec FS Bio contains a silver glass matrix which provides dual biostatic and biocidal action and is 99.9% effective in stopping bacterial growth and killing bacteria on the PVC sheet. If the surface of the sheet becomes worn new particles are exposed to retain its effectiveness.

Marvec FS Bio is suitable for use in hygienically demanding applications that require anti-microbial action and can be cleaned easily with non-abrasive cleaning products.

### Main benefits:

- Safe, active anti-microbial function
- Long-lasting effect of the anti-microbial agent
- Retains the anti-microbial properties even in fabrication
- Offers resistance to a wide range of chemicals
- Impact resistant
- Tested to ISO 22196
- Lightweight
- Easily bonded
- Withstands frequent cleaning
- Excellent adhesion
- Easy to install and maintain
- Ideally suited for high medical care areas

### Applications:

#### *Medical*

- Operating theatres
- Hospitals and clinics
- Laboratories and clean rooms

#### *Food*

- Food production areas
- Commercial and restaurant kitchens
- Plating of food
- Abattoirs

#### *Agriculture*

- Livestock, poultry and dairy farms
- Egg sorting halls
- Storage chambers



**Active anti-microbial ingredients:**

Marvec FS Bio is ideal for high care zones which must be controlled from the spread of viruses and infections and to create the ultimate in hygienic food preparation areas. The active anti-microbial protection kills microbes and inhibits any growth.

**Chemical resistance:**

Marvec FS Bio has excellent resistance to most chemicals including dilute acids and alkalis, alcohols, glycols, atmospheric pollutants and most cleaning solutions. Contact with solvents and wet wood preservatives should be avoided.

**Service temperature:**

The service temperature range of Marvec FS Bio is -20°C to +60°C. Greater care should be taken when working with PVC sheet at lower temperatures. It should not be installed near heat sources such as cookers and heating boilers as these could cause distortion and damage.

**Fire performance:**

Marvec FS Bio PVC sheeting achieves Class IY surface spread of flame when attached to a non-combustible substrate and tested to BS 476: Part 7. Class 0 performance is also achieved by thickness of 2mm and above.

**Cleaning:**

Non-abrasive domestic cleaning solutions are suitable for cleaning Marvec FS Bio.

**Product options:**

RS article no.	Description	Type	Size
8099689	Hygienic PVC sheet	standard	1.2m square
8099698	Hygienic PVC sheet	standard	0.6m square
8099691	Hygienic PVC sheet	bio grade	1.2m square
8099695	Hygienic PVC sheet	bio grade	0.6m square



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**Physical properties:**

Properties	Value
Specific gravity	1.38-1.42
Vicat softening point: DIN 53460	65-68°C
Thermal conductivity: DIN 52612	0.15 W/mK@1mm
Thermal expansion coefficient: DIN 53752	0.067mm/m°C
Falling dart impact strength (3mm sheet)	93-96J
Shore hardness: DIN 53505	60
Tensile strength at yield: DIN 53455	50-55MPa
Elongation at yield: DIN 53455	3%
Tensile strength at break: DIN 53455	48-54MPa
Elongation at break: DIN 53455	130-150%
Flexural strength: DIN 53452	78-82MPa
Flexural modulus	2,600-2,800MPa
Modulus of elasticity: DIN 53457	2,800-3,000MPa