

Palusol® is a registered trademark of BASF SE.
 Classification A2 (non flammable) according to DIN EN 13501-1
 European Technical Assessment ETA-15/0345

Product Description

Palusol® is an intumescent material with excellent technical properties and an early start of reaction at 100°C. The water bound in the material evaporates in case of fire, ensuring a cooling effect.

Application Areas

- Fire protection doors of steel, aluminium or wood
- Special application areas of fire protection doors, e. g. lock case insulations
- Glazing, facades
- Safety storage cabinets, control cabinets
- Double floors
- Thermal insulation elements
- Partitions
- Cable penetrations
- Gas stop valves, pneumatic drives

Technical Data

Composition:	expanding construction material on the basis of hydrous sodium silicate
Material structure:	firm panel material (flexible between 20 °C and 40 °C)
Bulk density [kg/m³]:	1580 [(± 10 %) at 1.9 mm]
Start of reaction [°C]:	from approx. 100
Expansion rate [x times]:	Palusol® 100: 5 to 9.5 at 1.9 mm / Palusol® 104: 4.5 to 9.5 at 3.6 mm
Direction of action:	two-dimensional
Expansion pressure [N/mm²]:	Palusol® 100: 0.95 to 1.60 at 1.9 mm / Palusol® 104: 0.95 to 1.60 at 3.6 mm (300 °C, method 4)
Thermal conductivity [W/mK]:	0.800 (at 10 °C)



Design Variants

Palusol® without additional lamination

Variant SK:	single-sided adhesive
Variant E:	completely coated with PVC foil
Variant PT:	hermetically sealed strips in synthetic profile
Variant T:	hermetically sealed strips in aluminium foil

Standard colours for films and sheeting: red, black and white; more colours on request.

Supply Formats

Dimensions:	2100 mm x 1100 mm
Thickness of material:	1.9 mm and 3.6 mm
Thickness of sheets:	1.9 mm ± 0.4 mm (type 100 with glass fibre roving), 3.6 mm ± 0.6 mm (type 104 with glass fibre roving)

Special formats are available on request. The cut formats (lengths x widths) are manufactured on the basis of the general tolerance DIN ISO 2768-1-c. The formed parts and stamped parts are manufactured on the basis of the general tolerance DIN 7715-5-p2. Please observe the safety data sheet. Store in a dry place at -20 °C to +40 °C.

Storage and transport

Palusol® must be protected from water high atmospheric humidity and sustained temperatures above 40 °C. The sheets and strips should always be stored lying horizontally and supported over their entire area. The wearing of protective gloves is recommended.

Note

The information in this brochure is based on our knowledge and experience to date. This information does not release the user from carrying out independent tests and trials due to the various influences when processing and applying our product. It is not possible to derive a guarantee of certain properties or suitability of the product in a concrete application case based on our information. All the descriptions, drawings, photographs, data, conditions, weights etc. included may change without previous announcement; they do not constitute the contractually agreed property of the product. The recipient of our product is responsible to observe any trademark rights and existing laws and regulations.