

AS-42 PHOTOLUMINESCENT PLATES PVC



General description

AS-42 photoluminescent (phosphorescent) plates are produced of a rigid plastic material which is nontoxic, non-radioactive and safe in use. It is available in 5 various brightness levels as shown in the availability table.

It has a wide range of applications: it can be used on board of the ships, in transport industry, underground stations, passageways. AS-42 is an excellent material for the production of plastic fire safety and fire prevention signs or decorative materials.

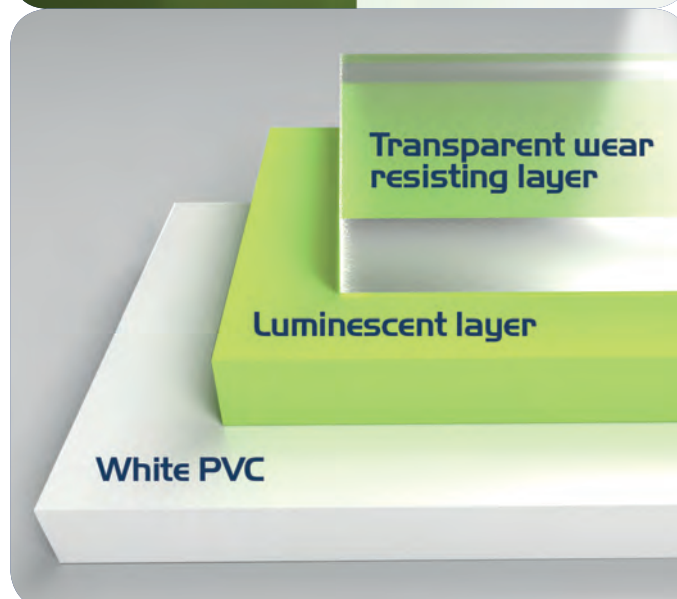
It meets the requirements of the ISO 15370:2010 which classify it as a fire-retardant material.

Installation instruction

AS-42 can be used as an element of the Low Location Lighting systems and for printing safety signs. It can be installed directly to the surface with use of the adhesive foam tapes (for example AS-80) or other adhesive products. It can be also mounted in aluminium profiles bolted at place as a photoluminescent insert.

Advantages

1. Produced of PVC with an enhanced fire resistance.
2. Good resistance to sea water and detergents (it can be cleaned using detergents).
3. Temperature resistance from -20°C to $+50^{\circ}\text{C}$.
4. High physical and mechanical durability.



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Physical and chemical properties

| Parameter | Result | | |
|---------------------------|---------------------------------------------------------------|---------|---------|
| | AS-42/C | AS-42/D | AS-42/F |
| Main composition | polyvinyl chloride, strontium aluminate, europium, dysprosium | | |
| Thickness | 1,2 mm | | |
| Service temperature | -20°C to +50°C | | |
| Workable life (indoor) | 5 - 10 years | | |
| Workable life (outdoor) | 3 - 5 years | | |
| Oxygen index | >26 | | |
| Shelf life | Undefined – if stored properly | | |

Afterglow performance

| Product code | Brightness (mcd/m ²)* | | Afterglow time | Dimension** | Weight per m ² |
|--------------|-----------------------------------|--------|----------------|-----------------|---------------------------|
| | 10 min | 60 min | | | |
| AS-42/C | ≥ 175 | ≥ 22 | min. 3040 min | 1000mm x 1200mm | 2,0 kg |
| AS-42/D | ≥ 255 | ≥ 34 | min. 4640 min | 1000mm x 1200mm | |
| AS-42/F | ≥ 420 | ≥ 60 | min. 6476 min | 1000mm x 1200mm | |

* Measurement performed in accordance with DIN 67510-1

** Other dimensions available on demand

Maintenance and storing

AS-42 Photoluminescent plates should be stored in dry and well ventilated area in temperature range between +15°C and 30°C and humidity 40-60%, out of sunlight, in clean and dry area. It should be stored in flat position to avoid deformation.



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