

SALBEX Photoluminescent Board

SALBEX Photoluminescent Board is a glow in the dark sheet product formulated to meet current Photoluminescent Safety Products Association (PSPA) guidelines. The material incorporates specialist non-toxic, non-radioactive luminous pigments that absorb ambient light, releasing it slowly when the light source is removed. A glass clear uPVC capping layer offers exceptional weathering resistance whilst providing an ideal surface for both digital and silk screen printing techniques, making SALBEX Photoluminescent Board an excellent choice for safety signage in both marine and land market areas.

Afterglow Performance

When tested to DIN 67510-1 the standard SALBEX Photoluminescent product surpasses PSPA Class B criteria whilst for more demanding requirements an enhanced version that surpasses PSPA Class C is available.

	Tested to DIN 67510-1 (5mins @ 1000 lux)		
Decay Time /mcd/m ²	10 min	60min /mcd/m ²	Decay Time to 0.32 mcd/m ²
PSPA Class B	50	7	> 900 mins
PSPA Class C	140	20	> 1800 mins

Compliance Data

SALBEX Photoluminescent Board product is compliant with many industry standards, some of which are highlighted below.

Standard	SALBEX Photoluminescent B	SALBEX Photoluminescent C
DIN 67510-4	●	●
ASTM 2072	●	●
ISO15370	●	●
IMO Resolution A.752 (18)	●	●
PSPA Class B	●	●
PSPA Class C	X	●

Flammability

At 1.3mm thick, all grades of SALBEX Photoluminescent Board fulfil the requirements of Class K1 according to DIN 53 438-2 and therefore meet burning Class S1 according to DIN 5510-2:2009-05 - Preventative fire protection in railway vehicles.

Availability

All grades are available at 1.3mm in sheet sizes up to 1250 x 2500mm. Thicker product can be supplied subject to minimum order quantities.

Chemical Resistance

Organic Compounds

SALBEX is unaffected by aliphatic hydrocarbons (most oils and greases), as well as aliphatic alcohols. It is attacked by aromatic and chlorinated hydrocarbons, ketones, ethers, esters and amines. Usually these organic compounds will cause swelling of the PVC by solvent action.

Inorganic Compounds

At temperatures of up to 60°C, Salbex is resistant to attack by most inorganic liquids including moderately concentrated acids, all alkalis and aqueous salt solutions at all concentrations. Powerful oxidising agents including oxidising acids will attack it in certain conditions.

A more comprehensive chemical resistance datasheet can be obtained on request from Sallu Plastics.

Cleaning

Cleaning is best carried out with dilute soap or detergent solution before being rinsed thoroughly using fresh water. Proprietary cleaners should be avoided as they may contain solvents or abrasives which could damage the material surface.

Shelf Life

Material should be stored in a cool, dry environment between 5-25°C.