


1. Name of the product

 **Everlux**[®] Safety bumper.

2. Product details

Profile of CR – polychloroprene rubber¹, with a density of 500±50kg/m³, 16±1.3mm thick, coated with  **Everlux**[®] photoluminescent material.

Safety bumper reduces the shock of collision and minimise the effects of involuntary collision as they are photoluminescent and will remain visible under any circumstances, even in the absence of light.

Depending on the angle of the surfaces to be protected, there are:

- Flat bumper – appropriate for flat surfaces and surfaces that are not at 90°.
- Corner bumper – appropriate for surfaces at 90° angles.


3. Installation

According to the Everlux Catalogue, chapter “Safety bumpers”.

4. Reaction to fire

The material shows a good reaction in case of fire, and is considered a “non-flammable” product, being classified as “M1 Class” according to Norm NF 16101 § 6.

5. Photoluminescent Properties

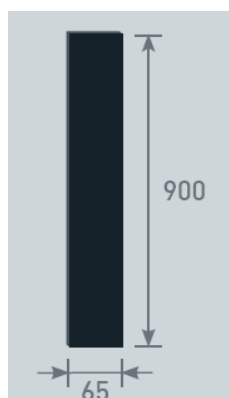
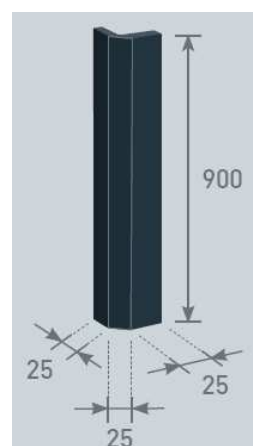
 **Everlux**[®] Safety bumpers meet the International Norms DIN 67510-4: 2008 and ISO 16069:2004. In conditions of stimulation with a 1000 lux for 5 minutes, they show the following photoluminescent properties:

Time after the stimulation has finished:	Luminance (mcd/sqm.)
10 minutes	170
60 minutes	22,5
Luminance Value 100 times above the one visible to human sight	Autonomy (minutes)
0.32 mcd/sqm.	2250

6. Dimensions and Colour

Colour of the stopper: black

¹ Usually known as Neoprene

Dimensions:**Bumper for flat surface****Bumper for edges**

Sizes in mm

7. Printing


By screen printing, with high quality paint resistant to UV rays.

8. Cleaning

These products do not require any special care and can be cleaned with just a cloth, dry or dampened with water (with no detergent).

9. Guaranty

Under normal conditions of installation and following an appropriate cleaning method, a 3-year guaranty will be given.

The durability and guarantee of the  **Everlux**[®] bumpers are conditional on the type and the state of the surface (level of roughness, porosity, etc) where the product is installed, by the conditions of cleanliness of the surface where it is installed (only a surface free of dust, grease and all type of dirt will provide good adhesion) and by the temperature when it is installed.

The adhesive used in the bumpers is made of a double-sided mesh in polyester impregnated with a permanent adhesive that allows an instant installation.

The temperature at which the  **Everlux**[®] safety bumpers are applied should be above +10°C. Once applied, at the recommended temperature, possible changes in temperature are generally well tolerated by the adhesive (-30°C to 65°C), without changing its adhesion properties.

Polychloroprene rubber has a good resistance to the weather, to time and chemical agents.

Other characteristics:

Characteristic	Test	Result
Water proof	NF R 99211 Annexe I	< 3%
Resistance to Compression (shock absorption)	NF T 56 110 25% compression 50% compression	50±5 kPa 120±10 kPa
	i.e.: if subjected to a pressure of 0.5kg/sqcm (≈ 50±5kPa) the material will compress by 25% (≈ 4 mm)	
Chemical Resistance ²	<u>Aliphatic hydrocarbons</u> : paint solvents, hexane, pentane, <i>aguarrás</i> , kerosene...	3
	<u>Aromatic hydrocarbon</u> : benzene, toluene, xilene, naflalene...	2
	<u>chlorinated hydrocarbons and polar solvents</u> : Tricloretileno cetonas, alcohol, ether, glicoyds, acetates and others	1
	<u>Solutions of domestic detergents</u> : (washing-up liquid, window cleaning products...)	3
Temperature of utilization	Continuous	-30 to 100 °C
	Transitory	120 °C

If applied outdoors, due to the possibility of exposure to extreme temperature, humidity and other surroundings, the durability of the product may decrease.

10. Health and Safety

Ⓢ **Everlux®** Photoluminescent products do not contain radioactive substances. In terms of toxicity they are considered "Safe Products" (European Norm EN 71-3.)

11. Quality and Certification

Ⓢ **Everlux®** Products are certified by the Lloyd's Register Type Approval System. Their quality is guaranteed by a process of strict quality control, tested in appropriate laboratories observing the applicable Norms.

12. Legal Framework

All Ⓢ **Everlux®** signs fully comply with the Norms and Legislation in force, namely:

- Norms ISO 3864
- DIN 67510 Norms

² **Legend:** 3 – Good chemical resistance; 2 – Medium resistance; 1 – weak chemical resistance