

# PENN ELCOM DATASHEET

## FLight Panels - MSDS

### 1. Product name and manufacturer

Trade name: FLight Panels

Manufacturer: Penn Elcom

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### 2. Information regarding the components and materials

The base material of films is PP-copolymer, which is reinforced with several minerals if required

Other materials are possible depending on the product model, e.g.:

- Laminated materials e.g. polyolefinic foams, PP- or PET-textiles (nonwoven, woven, tufting, ...), films
  - Surface with a rough structure is possible
  - Antislip surfaces e.g. TPO-layers
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### 3. Storage and handling

#### Storage

- Storage class (DE): 11, combustible solid materials
- Storage stability: Storage temperatures between -10 and +40 °C  
Protect from direct sunlight

#### Handling

- Do not overheat in order to avoid thermal decomposition (see section 7)

Standard versions without UV protection might become brittle in the surface structure when continuously exposed to direct UV-light or sunlight. On the other hand, versions with UV protection have a considerably longer service life.

Owing to the thermoplastic characteristics of PP, mechanical properties depend on the temperature. An increase in the temperature leads to a reversible increase in flexibility, whereas a reduction in temperature leads to a decreased flexibility (also reversible).

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### 4. Processing

FLight Panels can be processed with (cutting, drilling, milling, sawing) as well as without machining.

In case of mechanical processing:

- Adhere to the general safety regulations for industrial safety

In case of thermal processing:

- Ensure adequate suction
- Avoid direct skin contact with the hot product

**First aid if the molten material comes in contact with the skin:**

- Cool quickly with water, do not pull off the congealed product from the skin; seek medical treatment
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### 5. Fire fighting measures

- Suitable extinguishers: Water spray jet, foam, extinguisher powder, carbon dioxide
  - Unsuitable extinguishers: None known
  - Practical protective equipment: respiratory protection gear with an air-fed respirator
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### 6. Physical and chemical properties

- Crystalline melting range of PP: Standard: approx. 164 °C to 168 °C  
Special versions: from approx. 140 °C upwards
  - Solubility in water: insoluble
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### 7. Stability and reactivity of PP:

- Thermal disintegration: approximately 300 °C upwards
  - Conditions to be avoided: do not overheat in order to avoid thermal decomposition
  - Materials to be avoided: strong oxidizing agents
  - Hazardous disintegration products: - Aldehydes, Ketones  
- Hydrocarbons  
- Carbon monoxide, Carbon dioxide.
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### 8. Toxicological and ecological specifications

#### Toxicology:

Based on current experiences and information available to us, effects that are hazardous to health are not expected through intended usage.

#### Ecology:

The product was not tested. However, owing to its solid form and insolubility in water, biological reactions are improbable.

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### 9. Instructions for disposal

It is recommended that the uncontaminated product can be used for suitable recycling circulation.

The product can be stored or burnt together with the household waste by adhering to the essential technical regulations after discussing with the disposal company and the relevant authorities.

EU waste code:	07 02 13	Waste from MFSU of plastics, synthetic rubber and man-made fibers - Waste plastics
	20 01 39	Municipal waste (household waste and similar commercial and industrial waste as well as waste from facilities), including separately collected fractions - Plastics

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### 10. Information regarding safety-relevant classifications

- Transport area: not classified as hazardous goods
- Identification as per GefStoffV / EC (Ordinance on Hazardous Substances): not subject to declaration obligation
- National directives: DE: water hazard class: 0  
not water hazardous

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### 11. Use in the food products sector

FLight Panels can be used as transport packaging for food products:

Pay attention to the following explanations:

- Type/types of food products that can come in contact with the con-pearl® board:  
Primarily packaged food products of all types as per the valid ordinances:
  - Fruits & vegetables
  - Dry food products
  - Food products with natural barriers (shells, peeling)
  - Raw materials for the manufacturing of food products
- Type/types of food products that should NOT come in contact with the con-pearl® material:
  - Unpacked food products
  - Unpacked fat and/or oil-containing raw materials for the manufacturing of food products
  - Food products without natural barriers or cover (shells, peeling)

Evaluations such as "Suitable for food products" or "Compatible with food products" have not been carried out.

Tests for finished parts must refer to a precisely defined purpose of use. Since we are not aware of all details of applications or cannot test them, we recommend that users get the suitability tested for the intended usage on their own.

These tests are normally conducted by authorized/accredited testing institutes and are extremely time and cost-intensive.

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### 12. Other information

Owing to the current product form (manufacture), a safety data sheet as per 2001/58/EC is neither practical nor essential.

These specifications are based on our current state of knowledge. They are only for your information and do not assure specific properties.

These specifications do not exempt the product users from the adherence to existing laws and regulations under any circumstance.

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