

## Impact Protection

### Product Overview and Technical Information

Sold in lengths of a metre, this extremely popular impact protection product is made from flexible, age resistant polyurethane foam. It uniquely provides both a visual warning of objects as well as giving a safety cushioning to hard unyielding objects.

#### Features and Benefits

- Prevents injury and protects property
- Quick and easy to install
- High quality moulded sections
- Standard length is 1,000mm
- Easily cut to length with sharp knife or fine saw blade
- Made from flexible age resistant polyurethane foam
- UV resistant yellow/black colours according to DIN 4844
- Temperature resistant from -40 °C to + 90°C
- Fire resistant
- CFC and silicon free.

#### Possible applications:

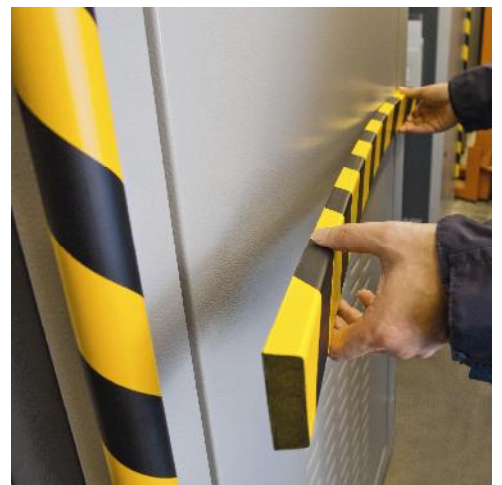
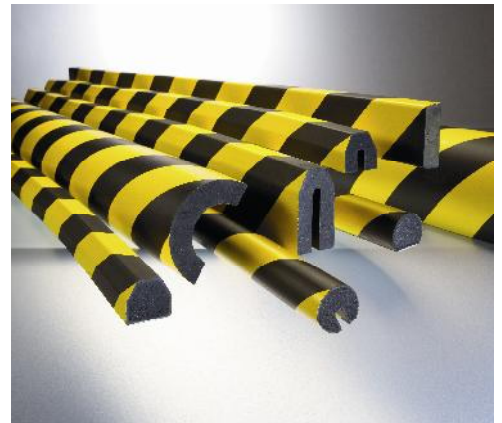
Internal and external machinery, racking, conveyors, vehicles, mobile trolleys, corners, columns, girders, production areas, transfer routes, hospitals, laboratories

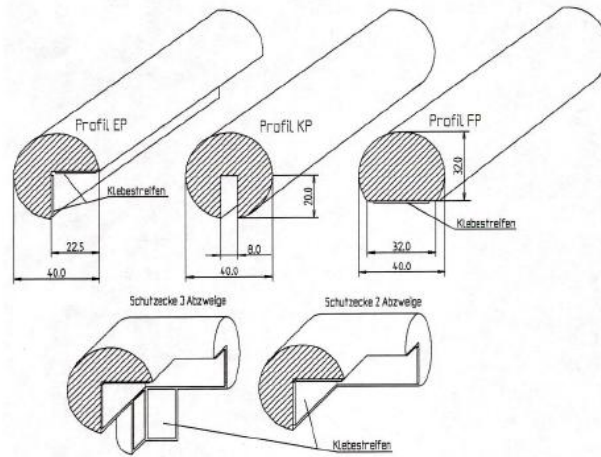
Ideal for all types of impact protection, including protecting walls, equipment and most importantly people. Used for head protection, bump protection, crash protection, pipe protection and many other applications.

**Delivery:** 1-2 days

#### Why buy from SecuritySafetyProducts?

Established in 2001, our team has over 50 years of security and safety experience between us. This experience really counts when it comes to sourcing / manufacturing our extensive product range, with the savings we make being directly passed on to you at some of the UK's lowest online prices.





**Material: semi hard integral foam black, yellows – black hatched**

<b>physical properties:</b>	
density:	350 – 400 gr/l
tensile strength skin:	3000 kPa
tensile strength foam:	1400 kPa
decrease after heat aging:	19%
decrease after hydrolisis aging:	28 %
breaking elongation skin:	129 %
breaking elongation foam:	110 %
compressive strength 40 % strain:	266 kPa
hardness:	ca. 62 Shore A
range of use:	- 40°C bis + 90°C
fire behavior:	normal flammable according to DIN 4102 B2

<b>chemical properties</b>		<b>degrease of mecanical properties</b>
<b>resistance against:</b>		
- acetic acid	2%	+
	5%	o
	10%	o
	50%	-
- ammonia	5%	+
- boric acid	4%	+
- formaldehyde	37%	-
- nitric acid	10%	-
- citric acid	10%	+
- gasoline		-
- potash lye	20%	-
- xilene		-
- formic acid	2%	+
	5%	o
	10%	o
- hydrochloric acid	10%	+
- hydrogene peroxide	10%	+
- kitchen salt solution	10%	+
- methanol		-
- methylene chloride		-
- phosphoric acid	25%	o
	50%	o
- soda lye	10%	o
	20%	o
	50%	-
- soda bleaching lye	3%	+
- sulfuric acid	10%	+
	25%	o
	50%	-

(+: degrease less than 5%)  
(o: degrease less than 15%)  
(-: degrease less than 30%)

REFERENCE NUMBER: IF 010509 ISSUE: 1 DATE:

1. **PRODUCT IDENTIFICATION:** Product Data: Impact Protection Foam

Article number: Depends on colour and size.  
Nature: Polyurethane Foam

2. **COMPOSITION:** Polyurethane NHC00.

**CAS Number: 9009-54-5**  
The compound contains hazardous ingredients. All of the ingredients are encapsulated in a polymeric matrix, thus minimizing the potential to exposure. Exposure limits for the individual ingredients are not relevant to the composition.



Hazardous ingredients: Contains ingredients with label:

**HAZARD IDENTIFICATION:**

Hazard characterisation: Non Hazardous

Combustion Hazard: The material can burn only upon heating to temperatures at or above the decomposition temperature.

Risk-phrases: N/a.

**FIRST AID MEASURES:**


**Skin Contact:** Wash with soap and water.  
**For Hot Product:** Immediately immerse in or flush affected area with copious amounts of cold water. Cover with clean cotton or other medical sheeting or gauze and obtain prompt medical attention. Do not attempt to remove hot product from skin, as damaged flesh can easily torn.  
**Inhalation:** When fumes of molten material have been inhaled the following actions should be taken:  
Move person to fresh air.  
Rest in half upright position.  
Loosen clothing.  
Keep warm.  
Seek medical advice.  
**Eye Contact:** Any material entering the eyes should be flushed out with copious amounts of clean cold water.

5. **FIRE FIGHTING MEASURES:**

**Extinguisher Types Recommended:** Water, water/foam, ABC fire extinguishing powder.  
**Decomposition Products:** Combustion products include isocyanates, carbon monoxide, oxides of nitrogen, and hydrogen cyanide.

N/A = Not Applicable NDA = No Data Available



<b>Protection of Fire Fighters:</b>	Respiratory and eye protection is required. Positive pressure self contained breathing apparatus (SBCA) must be used. Personnel should not expose themselves to vapours or smoke without SBCA.
<b>6. ACCIDENTAL RELEASE MEASURES:</b>	
<b>Accidental Release Measures:</b>	Recover spilled material and place in suitable containers for recycling or disposal. Handle as solid waste. Do not flush into sewers or watercourses. Consult an expert on disposal of recovered material and ensure conformity to EU regulations, national laws and local bye laws or regulations.
<b>7. HANDLING AND STORAGE:</b>	
<b>Storage Temp. (°C):</b>	Ambient.
<b>Transport Temp. (°C):</b>	Ambient.
<b>Loading Temp. (°C):</b>	Ambient.
<b>Storage:</b>	Store in the dry. Store flat, not on end.
<b>8. EXPOSURE CONTROLS &amp; PERSONAL PROTECTION:</b>	
	
<b>Ventilation:</b>	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
<b>Hand Protection</b>	When cutting profiles safety gloves should be used.
<b>Eye Protection:</b>	When cutting at ambient temperature the wearing of safety glasses is recommended.
<b>9. PHYSICAL AND CHEMICAL PROPERTIES:</b>	
<b>Appearance/Form:</b>	<b>Form:</b> Solid
<b>Appearance:</b>	Black (Base material)
<b>Melting Point:</b>	Approx. 240°C
<b>Boiling Point:</b>	Not determined.
<b>Vapour Pressure:</b>	N/a.
<b>Vapour Density:</b>	N/a.
<b>Evaporation:</b>	N/a.
<b>Specific Gravity:</b>	N/a
<b>Solubility in Water:</b>	Insoluble.
<b>Explosion Limit:</b>	N/a.
<b>10. STABILITY AND REACTIVITY:</b>	
<b>Hazardous polymerization:</b>	Will not occur.
<b>Incompatibility:</b>	None known.
<b>Stability:</b>	Stable.
<b>11. TOXICOLOGICAL INFORMATION: (Base Polymer)</b>	
	NDA
<b>12. ECOLOGICAL INFORMATION:</b>	
	The product should not be allowed to enter drains or watercourses. Not biologically degradable.
<b>13. DISPOSAL INFORMATION:</b>	
<b>Treatment:</b>	Handle as solid waste. Dispose of according to EU regulations, National laws and local bye laws and regulations.

N/A = Not Applicable    NDA = No Data Available

**14.*****TRANSPORT INFORMATION:***

<b>Usual shipping units:</b>	Wood/cardboard containers.
<b>Loading/unloading temp:</b>	Ambient.
<b>IMO Class:</b>	None.
<b>IATA Class:</b>	None.
<b>EU Classification/symbol:</b>	Non-regulated.
<b>ADR/RID Class:</b>	None.
<b>US DOT Classification:</b>	Non-regulated.
<b>Treatment:</b>	This product is not defined as hazardous by any current provision or classification.

**15.*****REGULATORY INFORMATION:***

<b>Labelling:</b>	No labelling required under EEC directives 88/379/EEC.
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