

7100 Series Polyolefin Foam Tape

Supplier Details:

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1. Identification: Product identifier and chemical identity

7100 Series is based on physically crosslinked polyolefin foam produced in a continuous web process. 7100 Series is based on PE homo and copolymers and foamed with an organic foaming agent by chemical decomposition. The two following gases are mainly produced:

- Nitrogen (N₂)
- Carbon dioxide (CO₂)

Both are known as non-depleting substances to the ozone layer.

2. Hazard(s) identification

Health Effect: Not classified as hazardous according to EU Regulation 1272/2008EC (CLP/GHS) and Australian WHS Regulations.

3. Composition and information on ingredients

7100 Series is based on physically crosslinked polyolefin foam produced in a continuous web process. 7100 Series is based on PE homo and copolymers and foamed with an organic foaming agent by chemical decomposition. The two following gases are mainly produced:

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4. First aid measures

After contact with skin: No special measures with usage at normal temperatures.

After contact with eyes: Flush thoroughly with flowing water.

After inhalation: No special measures with usage at normal temperatures.

After swallowing: If ingested, induce vomiting by drinking a large volume of water or salt water.

Seek medical attention.

In case of fire: If smoke gases are inhaled, which contain mainly carbon dioxide (CO₂) and carbon monoxide (CO), fresh air and possible artificial respiration (seek medical attention immediately) are the recommended measures.

If body skin is burned through contact with molten material, cool burned parts with water but do not remove from the skin. If skin burn degree 2 or 3 is reached, seek medical attention immediately.

5. Firefighting measures

Fire extinguishing mediums are:

- Dry chemical
- Water spray

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- Extinguishing foam
- CO₂ extinguisher

Use respirator/oxygen masks in enclosed areas. Avoid dense smoke and do not inhale the smoke gases from combustion.

Use safety glasses and protect skin/body with protective clothing.

6. Accidental release measures

Not applicable

7. Handling and storage, including how the chemical may be safely used

Handling:

Practice reasonable care as a normal safety precaution. The working environment should be kept clean and free of dust.

Fabrication areas should be well ventilated to carry away fumes, vapours and dust, especially in processes eg lamination (heat and coating), welding, vacuum forming, hot press moulding; operators should be assured of a supply of fresh air.

Storage:

Practice reasonable care and cleanliness; provide adequate distance between stacks as a safety precaution. Store inside with ventilation and keep dry, away from direct sunlight. Keep in original packaging until required. Do not expose to any source of flame, ignition or heat.

8. Exposure controls and personal protection

Non-Fabrication Applications

Breathing protection:

No special requirements

Hand protection:

Use safety gloves when cutting product with a knife

Eye protection:

No special requirements

Body protection:

No special requirements

Fabrication Applications

Breathing protection:

In special fabrication areas that are not well ventilated, use special personal breathing respirator/mask or filter in order to protect from fumes, vapours and dust.

Hand protection:

When working in fabrication areas utilising heat processes, wear gloves (cotton wool or leather) to prevent possible thermal injury from molten foam.

Eye protection:

When working in fabrication areas utilising heat processes, wear safety glasses or goggles to prevent possible thermal injury from molten foam.

Body protection:

When working in fabrication areas utilising heat processes, minimise skin exposure by wearing long sleeved clothing, long leggings and shoes to prevent possible thermal injury from molten foam.

9. Physical and chemical properties

Appearance:

Semi rigid closed cell, physically crosslinked polyolefin foam.

Odour:	Odourless
Softening range:	$\geq 100 - 130^{\circ}\text{C}$
Autoflammability:	$\geq 300^{\circ}\text{C}$
Thermal decomposition:	$\geq 160 - 180^{\circ}\text{C}$
Explosive properties:	None
Solubility in water:	Insoluble
Organic solvents:	Insoluble, partly soluble, swelling; depending on solvent type
Electrical surface resistance:	$\geq 10^{18}\Omega\cdot\text{cm}$

10. Stability and reactivity

Avoid:

Any temperature (over period > 10 minutes)	>160 - 180°
Any contact with strong oxidising chemicals	

11. Toxicological information

Toxicologically harmless:

Physically crosslinked polyolefin foams are among the most inert polymer foams and constitute no hazard in terms of normal handling and skin contact.

12. Ecological information

Environmentally harmless:

- Insoluble in water
- Insoluble in most solvents
- Free of heavy metals and plasticisers
- Degradable only by prolonged UV exposure

Ozone layer depleting substances:

Does not contain and is not produced with any of the substances mentioned in the "Montreal Protocol" of ozone depleting substances and in the corresponding EU Regulation 2024/590:

- Chlorofluorocarbons (CFCs)
- Hydrochlorofluorocarbons (HCFCs)
- Carbon Tetrachloride
- 1,1,1-Trichloroethane
- Methyl Bromide
- Hydrobromofluorocarbons (HBFCs)

13. Disposal considerations

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Re-use:

Remnant material may be reused directly, e.g:

- Cushion packaging material

Recycling:

Ask our Sales Engineers about product specific recycling possibilities

Disposal:

When disposing of any waste, observe all applicable national and local regulations. Product may be disposed of by:

- Landfill
Physically crosslinked polyolefin foam is inert and does not degrade, it forms a permanent soil base and releases no gases or chemicals known to pollute water resources.
- Incineration
Incinerate using properly controlled municipal or industrial systems. Plastic materials, such as physically crosslinked polyolefin foam, have high heat values and should only be incinerated in units designed to handle combustion heat.

14. Transport information

No restrictions and non-hazardous material in relation to transportation regulations

15. Regulatory information

No regulations apply in relation to classification, packaging and identification, also applicable to health and environmental care.

16. Any other relevant information

This information is based on our present level of knowledge and is intended to be a description of the properties and/or characteristics of the product concerned, from a safety perspective. It is not a guarantee of technical specifications, nor of any particular properties nor features. Stylus disclaims any responsibility for the accuracy and completeness of the information and recipients should independently assess the product and investigate the information to determine whether the product is suitable and/or safe for the intended application and should consider any relevant legal and regulatory requirements, including as to safety, in this regard.

For further information, please contact a Stylus Tapes sales representative.