

Material Safety Data Sheet
Thermaflex Polyethylene Insulation Tube, ZZ

1 Identification of

1.1 Product Thermaflex Polyethylene Insulation Tube, ZZ

1.2 Company Production plant TR
Thermaflex Yalıtım San. Ve Tic. Ltd. Şti.
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Yalıtım San. ve Tic. Ltd. Şti

- 2 Product description** Thermaflex ZZ is a polyolefin foam is produced in a extrusion process. Thermaflex ZZ is based on polyolefin polymers and physically foamed with an organic foaming agent. The foaming agent is known as non depleting substance to the ozone layer.
- 3 Hazards identification** Polyolefin foam will burn when provided with an adequate amount of heat and oxygen; therefore do not expose the material to any flame or other source of ignition or heat. ZZ Pipe -formulations will not prevent the foam from burning. Avoid direct contact with body skin, because ZZ -additives may in certain cases cause skin irritation in sensitive persons; we recommend to the waring of gloves.
Subject to reasonable care and cleanliness there are no obvious problems associated with the handling of polyolefin foams.
- 4 First aid measures** After contact to skin or eyes: No special measures. See 11 Toxicological information

In case of fire: if smoke gases are inhaled, which contain mainly carbon dioxide (CO₂) and carbon monoxide (CO): Fresh air, coffee and possibly artificial respiration (call immediately a doctor) are the recommended measures.
If headache, nausea or vomitting occur, contact a doctor.

If body skin is burned through contact with molten foam: Cool burned parts with water, but do not remove the foam from the skin. If skin burn grad 2 or 3 is reached: call immediately a doctor.
- 5 Fire fighting measures** Fire extinguishing mediums are:
Water spray, 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 protec skin/body with protective clothing against molten Thermaflex ZZ.

- 6 Accidental release measures** Not applicable
- 7 Handling and storage**
- 7.1 Handling** Practice reasonable care as a normal safety precaution. Fabrication areas should be well ventilated to carry away fumes, vapours and dust. Operatives should be assured of a supply of fresh air. The working environment should be kept clean and free of dust.
- 7.2 Storage** Practice reasonable care and cleanliness; provide adequate distance between stacks as a safety precaution. Do not expose to any source of flame, ignition or heat. Recommended storage is inside due to UV light and heat sensitivity.
- 8 Exposure controls/ personal protection**
- Breathing protection:
Use special personal breathing respirator/mask or filter, in special fabrication areas (see 7.1 Handling) that are not well ventilated, in order to protect from fumes, vapours and dust.
- Hand protection:
Wear gloves (cotton, wool or leather), when working in fabrication areas utilising heat processes, to prevent from possible thermal injury from hot foam.
- Eye protection:
Use goggles or face masks, when working in fabrication areas utilising heat processes, to prevent possible contact with hot foam and thermal injury.
- Body protection:
Wear clothes and shoes, to protect the full bodyskin, especially when working in fabrication areas utilising heat processes, to prevent possible thermal injury (burns).

- 9 Physical and chemical properties**
- Appearance: semi rigid closed cell, polyolefin plastic foam web, available in a wide variety of types.
- Odour: odourless
- Softening range: >70 °C
- Autoflammability: >300 °C
- Thermal decomposition: >160 °C
- Explosive properties: none
- Apparent density: 25-38 kg/m³ (foam)
- Sollubility in: water: insoluble
organic solv.: insoluble, partly soluble, swelling; depending on solvent type.
- 10 Stability and reactivity**
- Avoid any temperature >160 °C over a period >10 min.
Avoid any contact with strong oxidazing chemicals.
- Dangerous decomposition products: decomposition gases/vapours in heat fabrication processes combustion gases in case of fire.
- 11 Toxicological information**
- Toxicologically harmless.
Polyolefin foams are among the most inert polymer foams and constitute no hazards in terms of normal handling and skin contact.
- 12 Ecological information**
- Environmentally harmless:
- insoluble in water: no contamination
- insoluble in most solvents
- degradable only by UV light
Thermaflex ZZ is produced (H)CFC free.
- 13 Recycling & Disposal Considerations**
- Recycling: Ask our sales responsables about product specific recycling possibilities.
- Disposal: When disposing of any wastes, observe all applicable national and local regulations.
- 14 Transport information**
- No restriction and non dangerous material in relation to transportation regulations according to regulations ADR/RID, IMO and IATA
- 15 Other information**
- For additional product information contact Thermaflex Yalıtım San.