
Safety Data Sheet

ThermaSmart PRO sheet

1. Identification

1.1 Product

ThermaSmart PRO sheet

1.2 Company

Thermaflex Isolatie B.V.
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1.3 Emergency phone number

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- 2. Product description** ThermaSmart PRO sheet is a thermoplastic elastomer (TPE) polyolefin foam containing flame-retardant additives and is produced in an extrusion process. ThermaSmart PRO sheet is based on polyolefin thermoplastic elastomeric polymers and foamed with an blowing agent. The blowing agent is known as a non-depleting substance to the ozone layer
- 3. Hazards identification** TPE foam will burn wen 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. AC-formulations will not prevent the foam from burning, but will show improved fire retardant properties in terms of reduction of fire ignition and fire spread in well-defined burn tests.
Avoid direct contact with body skin, because AC-additives may in certain cases cause skin irritation in sensitive persons; we recommend to wear gloves. Subject to reasonable care and cleanliness there are no obvious problems associated with the handling of TPE foams
- 4. First aid measures** After contact to skin or eyes, no special measured needed. See 11. Toxicological information.

In case of fire: if smoke gasses are inhaled, which contain mainly Carbon dioxide (CO₂) and carbon monoxide (CO); fresh air, coffee and possible artificial respiration measures.
If headache, nausea or vomiting occur, contact a doctor

If body skin is burned through contact with molten material; cool burned parts with water, but do not remove there material from the skin. If skin burn grade 2 or 3 is reached call immediately a doctor
- 5. Firefighting 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 gasses from combustion.
Use safety glasses and protect skin/body with protective clothing against molten ThermaSmart PRO sheet.

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| 6. Accidental release measures | Not applicable |
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| 7. Handling and storage | |
| 7.1 | Practice reasonable care as a normal safety precaution. Fabrication areas should be well ventilated to carry away fumes, vapors 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 exposure 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 and dust.

Hand protection:
Wear gloves (cotton, wool or leather), when working in fabrication areas utilizing heat processes, to prevent from possible thermal injury from hot foam.

Eye protection:
Use goggles or face masks, when working in fabrication areas utilizing heat processes, to prevent possible contact with hot foam and thermal injury.

Body protection:
Wear clothes and shoes, to protect the full body skin, especially when working in fabrication areas utilizing heat processes, to prevent possible thermal injury (burns) |

9. Physical and chemical properties

Appearance:
Semi rigid closed cell polyolefin TPE foam, available in a wide variety of types.

Odor:
Odorless

Softening range:
>70°C

Auto flammability
>300°C

Thermal decomposition:
>160°C

Explosive properties:
None

Apparent density:
30-35 kg/m³

Solubility:
Water – insoluble
Organic solvent – insoluble, partly soluble, swelling (depending on solvent type)

10. Stability and reactivity

Avoid any temperature >160°C over a period of > 10 mon.
Avoid any contact with strong oxidizing chemicals.

Dangerous decomposition products: decomposition gasses/vapors in heat fabrication processes combustion gasses 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 (Stabilizers added)

ThermaSmart PRO sheet is produced (H)CFC free

13. Recycling & Disposal considerations

Recycling:

Ask our sales responsible about product specific recycling possibilities

Disposal:

When disposing any waste, 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 Isolatie B.V.