

Permo Vapour Permeable Underlays

Health and Safety Data

Product Names Permo Forte, Light, Classic, Easy, and Frame

Manufacturer Klober Gmbh &Co.Kg
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Germany

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Components Polyolefin LDPE/PP 90%
EVA (Ethylvinylacetate) Hotmelt 9%
Stabilisers (Thermal and UV) Ca. 5.000ppm
Catalyst residues (Al,Pb,etc) < 100ppm

Physical Data

Form Rolls of solid sheet material
Melting Point 105° C
Flash Point 330 - 365° C
Auto Ignition Temperature 330 - 350° C
Specific Gravity 0.96 g/cm³
Solubility in Water Insoluble
Odour Odourless
Colour White/grey, White/beige, anthracite, red, blue
Volatile matter <0.1% by weight at 150° C

Hazardous Reactivity

Instability	Chemically Stable, but sensitive to heat
Incompatibility	Incompatible with heat, fire or strong oxidising agents
Polymerisation	Further Polymerisation does not occur

Fire and Explosion Data

Permo membranes can be ignited and melts as it burns. Drops of flaming material can cause a fire to spread and can cause severe burns if allowed to come in contact with the skin.

Permo Membranes are not dimensionally stable in a flame and will shrink.

Fine Permo particles do not present an explosion hazard.

Extinguishing

Chemical foam, dry chemical and CO² are all suitable- as is water provided the fire is not of an electrical origin.

Health Hazard Information

Permo is made up of a thin film laminated onto PP-Nonwoven. It appears, however, that (abrasive) processing of Permo only gives rise to coarse fibre dust (nuisance dust), but does not generate respirable fibres. Local statutory limits for total airborne dust are applicable for these fibre debris. Usually this means that their concentration must remain (well) below 5mg/m³- a level that is almost never attained in practice.

Klober state that Permo is non-toxic.

General Safety Precautions

Keep away from heat, sparks and flames, do not expose to strong oxidising agents.

Permo contains no antistatic agent. This allows the accumulation of static charges and should not be unwrapped or handled in areas where flammable or explosive vapour/air mixtures may be present.

When cutting or mechanically working with Permo, safety glasses or an appropriate face shield should be worn.

Respirators are normally not required.

First Aid

If skin irritation occurs due to contact with Permo is suspected, wash with soap and water.

If fibres come into contact with eyes, remove particle. Do not rub eyes. Consult medical assistance if irritation persists.

Transportation Information

Permo can be shipped without transport restrictions. It is not regulated by the UNO, the EEC, the IATA or any derived organisation co-ordinating safety in international air, road or maritime transport. (E.g. ICAOTI, AND, ADR, RID etc)

Disposal Information

Permo is not a hazardous waste. It is chemically inert and highly stable in all recommended use environments.

It normally requires no special spill handling or waste disposal procedures. Read Fire and Explosion Hazards and Safety Precautions before proceeding with clean up and disposal. Wear appropriate protective equipment.

Waste disposal

Permo mainly consists of 90% polyethylene so can be recycled.

When large quantities of Permo waste needs to be disposed of a recycling program should be seriously considered.

If recycling is not possible, incineration should be preferable to landfill disposal. In general however Permo waste may e incinerated or it may be discarded in a landfill in accordance with local regulations governing the disposal of common non-regulated solid waste materials.

The material is not readily biodegradable and does not contain a significant percentage of water extractable materials.

Permo membranes have no known harmful effect on groundwater or air quality.



May 2003

Note:

This document contains information on what we believe is correct at the time of publication.

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