



SHIELD Polythene Film®

SDS (SAFETY DATA SHEET)



SHIELD Polythene Film® is a high-quality, commercial-grade polythene suitable for use as a damp-proof membrane in residential and commercial construction. Complies with NZS 3604:2011 Clause 7.5.6 and E2/AS1 Table 23 for use as a damp-proof membrane under concrete slabs.

SECTION	INFORMATION & REQUIREMENTS
Identification of the Substance and Supplier	Product Use: Damp-proof membrane (Ground Vapour Barrier) for use under concrete slabs in residential and commercial buildings. Emergency Contact: 021 387 246 (office hours)
Hazard Identification	GHS Classification: Not classified as hazardous under the NZ Hazardous Substances and New Organisms Act (HSNO). Signal Word: None. Hazard Statements: This product is not considered a hazardous substance or mixture. Precautionary Statements: Avoid breathing fumes from molten or burning material. Use good workplace hygiene.
Composition	Low-density polyethylene (LDPE), CAS No. 9002-88-4, >95% Carbon black (masterbatch), CAS No. 1333-86-4, <2% Processing additives (antioxidants, slip agents), <1%
First Aid	Inhalation: Not applicable in solid form. If fumes from overheating occur, move to fresh air. Skin Contact: Wash with soap and water if irritation occurs. For burns from molten material, cool rapidly with cold water – do not remove solidified polymer. Eye Contact: Rinse with water; seek medical advice if irritation persists. Ingestion: Non-toxic; seek medical attention if swallowed pieces cause discomfort.
Fire Fighting	Suitable Extinguishing Media: Water spray, foam, dry chemical, or CO2. Hazardous Combustion Products: Carbon monoxide, carbon dioxide, low-molecular hydrocarbons, soot. Protective Equipment: Firefighters should wear self-contained breathing apparatus.
Accidental Release Measures	Not applicable – solid sheet product. Collect mechanically and reuse or dispose of in accordance with local regulations.
Handling and Storage	Store flat, undercover, and protected from sunlight and sharp objects. Avoid temperatures above 60°C. Limit UV exposure on-site to less than 30 days prior to concrete placement. Use gloves when cutting or handling to prevent abrasions.



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Exposure Controls / Personal Protection	No specific exposure limits apply. Normal site PPE: gloves, safety boots, and eye protection when cutting. If undertaking hot work (welding or melting), provide local exhaust ventilation.
Physical and Chemical Properties	Appearance: Black plastic sheet or roll Odour: None Density: ~930 kg/m³ Melting Point: 110–120°C Flash Point: >300°C Solubility: Insoluble in water Vapour Pressure: Nil pH: Not applicable
Stability and Reactivity	Stable under normal conditions. Avoid open flame and strong oxidisers. Thermal decomposition above 300°C may produce CO/CO₂ and hydrocarbons.
Toxicological Information	Not toxic by inhalation, ingestion, or skin contact. Low mechanical irritation possible from edges. Not a skin sensitiser or carcinogen.
Ecological Information	Not biodegradable but inert and non-toxic to aquatic life. Avoid uncontrolled release to the environment; recycle where possible.
Disposal Considerations	Recyclable as Category 4 (LDPE). Dispose of through approved plastic recyclers or landfill in accordance with local regulations. Do not burn in open air.
Transport Information	Not classified as Dangerous Goods under NZ Land Transport Rule 45001/1, IMDG, IATA, or UN Model Regulations.
Regulatory Information	Complies with NZ Building Code Clauses B2, E2, and F2 when installed correctly. SHIELD Polythene Film® is not subject to a warning or ban under section 26 of the Building Act 2004. Not a hazardous substance under HSNO.