

On-site handling of TETRiS Extruded Polystyrene Blocks

Product

TETRiS (extruded polystyrene)

Manufacturer

CELLECTA Limited, Unit D Norman Close, Medway Valley Park, Rochester, Kent, ME2 2JU

Composition

Extruded polystyrene foam blown with a mix of HFA & CO₂ gases, containing a yellow pigment, flame retardant additive and nucleating agent.

Physical properties

Colour: Pale yellow

Appearance: Multi cellular rigid foam board

Cell structure: Closed

Density: 34kg +/-3kg

Thermal conductivity: 0.029 (BS EN 12667: 2001)

Water solubility: None

Maximum working temperature: 75°C

Decomposition: > 285°C

Auto ignition temperature: >500°C

Fire rating: Type A BS3837 Part 1:1986

Note: TETRiS blocks are classified as a non-hazardous material according to EU criteria.

Material stability

Conditions to avoid: TETRiS blocks should not be used where working temperatures exceeding 75°C.

Chemical stability: TETRiS blocks are stable under recommended storage conditions.

Materials to avoid: Oils, petrol, aromatic hydrocarbons and organic solvents.

Toxicological information

Skin contact: TETRiS blocks are considered to be physiologically inert. Material, if handled correctly will not have adverse affect.

Eye Contact: Solid or dust particles may cause irritation or corneal injury due to mechanical action.

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First Aid

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Inhalation: If effects occur remove to fresh air and consult a physician.

Skin contact: No adverse affect anticipated.

Eye contact: Mechanical irritation only. Wash with cold water for at least five minutes.

Ingestion: Consult a physician

Storage

Boards are supplied packed in opaque polythene film to protect them from ultra violet degradation. The surface of the boards will degrade to a fine dust if the boards are exposed to a long period in sunlight. Packs stored outside should be covered with a tarpaulin sheet.

Fire fighting measures

Protection to fire-fighters: Protective-pressure self contained breathing apparatus and full protective fire-fighting clothing must be worn.

Extinguishing tool: Fine spray, water fog, powder and CO₂ extinguishers.

Combustion products: Test have shown that TETRiS blocks are no more toxic than that of combustion products of common building material, such as wood. When combustion occurs the main output is carbon. The decomposition gases are made up of carbon dioxide and water with traces of Carbon monoxide (CO), hydrochloric acid (HCl) and Hydrofluoric acid (HF).

Method of fire fighting: Extinguish the fire with powder or CO₂, or apply a large volume of water directly on the flame of the burning surface. Soak thoroughly with water to cool and prevent re-ignition.

Should further information be required, contact our technical office on **08456 717174**