



Date of Issue: 2<sup>nd</sup> November 2023

## **SAFETY DATA INFORMATION SHEET**

### **GARADRY GARAGE DOOR INSULATION**

#### **Section 1. Identification of the substance / and of the company / undertaking**

Film/Fibre Insulation Laminate

GaraDry Limited

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Halsall, Ormskirk

Lancashire, L39 8RG

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#### **Section 2. Composition / information on ingredients**

PET Polyester Film/Wadding/Film composite, laminated by adhesive.

- A wadding with a blend of staple polyester fibres (polyethylene terephthalate homopolymer) - CAS No : 025038 - 59 -9.
- MET FOIL 813, 12-23 microns thick
- A WEB type adhesive, EVA grade

#### **Section 3. Hazards identification**

Unlikely to cause harmful effects under normal conditions of handling and use, however, formation of dense toxic smoke containing CO<sub>2</sub> and CO can be expected in uncontrolled fires.

#### **Section 4. First aid measures**

Skin contact : Not considered significant in normal use. In a fire, molten drops may adhere to skin, cool under water, do not peel off, seek medical advice.

Ingestion : Unlikely. Wash mouth out with water and obtain medical advice if this occurs.

Eye contact : In case of eye contact, rinse immediately with plenty of water and seek medical advice.

Inhalation : Isolate patient from further exposure. Obtain medical attention if ill effects occur.

## **Section 5. Fire fighting measures**

Extinguishing media : Water (spray preferred), CO<sub>2</sub>, Foam, Dry Powder, Sand

Extinguishing media to avoid : None.

Protective equipment : Self-contained breathing apparatus is essential.

Unusual fire hazards : Uncontrolled burning can generate toxic fumes.

## **Section 6. Accidental release measures**

No special measures are required, but for disposal measures, see section 13.

## **Section 7. Handling and storage**

Store indoors at ambient temperatures away from heat and ignition sources. Be aware that metallised films can conduct electricity.

## **Section 8. Exposure controls / personal protection**

Normal room ventilation should suffice.

## **Section 9. Physical and chemical properties**

Form : Sheets/rolls of laminate

Colour : Clear/Silver with a white core.

Odour : May have a slight odour when unpacked

Solubility in water : Insoluble

## **Section 10. Stability, Reactivity and Flammability**

This product is stable at room temperature and does not decompose or self-react when stored under these conditions. Only at extreme temperatures above the decomposition temperature will degradation occur.

Flammability, as a measure of ease of ignition, is usually applied to liquids, where it can be readily determined and quantified in terms of flashpoint. Laminates however are considered solid textiles, so the term combustibility is better suited. All natural, and most synthetic textiles, even flame retardant, are combustible. The comparative combustibility of the laminate is approximately midway between woven cotton and nylon textiles of similar weight.

Thermal decomposition will occur by exposure to incandescent radiant heat sources and/or high temperatures. Exposure to open flames will cause ignition. In the above scenarios, both smoke and hazardous gaseous products are evolved. Whilst these consist mainly CO<sub>2</sub>, CO and some soot,

sufficient other substances present render the gaseous decomposition products toxic by inhalation. Hazardous reactions do not occur at temperatures encountered during normal usage. Exposure of the product to acids, alkalis, solvents, or bleaches should be avoided.

#### **Section 11. Toxicological Information**

Effect on eyes : Mechanical irritation only

Effect on skin : None in normal individuals. The product is not considered to be allergenic.

Long term exposure: No evidence of adverse effects.

#### **Section 12. Ecological Information**

Polyester fibres are insoluble in water.

#### **Section 13. Disposal Considerations**

Collect waste in bags/bins, store safely. The preferred recycling method for the polyester wadding is incineration with energy recovery.

Advice on the preferred method should be sought from the local Waste Regulation Authority or an equivalent body if outside the UK.

#### **Section 14. Transport information**

The product is not classified as hazardous for any mode of transportation.

#### **Section 15. Other information**

Further and more specific information on the components which make up this product may be obtained by consulting the technical data sheet below and by contacting the individual manufacturers at their addresses shown.

# TECHINICAL DATA INFORMATION SHEET

## WADDING

### **Composition**

A wadding with a blend of staple polyester fibres  
(polyethylene terephthalate homopolymer) - Cas No: 025038 - 59 -9,  
Melting Point 260 C

### **Bonding Agent**

4.4 dtex Synthetic Bi - Component Polyester Fibre  
poly(ethylene terephthalate-co-ethylene isophthalate)  
Melting Point 65 C / 113 C

### **Solubility in Water**

Insoluble

### **Solubility in Other**

Certain Aromatic Hydrocarbons e.g. Metacresol

### **Colour**

White

### **Commodity Codes**

Country Of Origin United Kingdom  
Waddings of textile materials and articles there in - 56012290  
SIC Code 20600

### **Weight**

g/m<sup>2</sup>  
250gms  
+ / - 10% Tolerance

### **Thickness**

15mm (+ / - 2mm Tolerance)  
(Measured during production - before packing & transported)

### **Flammability**

This product is tested to ensure the flammability behaviour meets BS5852 Part 2 using Ignition source 2 – Gas.

The product also meets the relevant requirements of the Furniture & Furnishing (Fire & Safety) Regulations 1988, amendment 1989 & 1993 for polyester fillings. Statutory Instruments 1988 No 1324.

### **Cleanliness**

This product meets the requirements of BS1425 Cleanliness of Fillings

### **Roll Length**

23 linear metres

### **Roll Width**

155cm

### **Cardboard Tube**

50.8mm Inside Diameter 1.2mm Thickness

### **Packaging**

Clear Polythene

### **Health and Hazard**

Emergency Overview: Soft off- white or delustered fibre. There are no hazards associated with the product for which first aid is required.

#### **Potential Health Hazards**

- Skin: May cause mechanical irritation.
- Eyes: May cause mechanical irritation.
- Inhalation: Not respirable in this form. Thermal processing of fibre may generate fumes and vapours which may cause irritation to the nose and throat. Dust should be considered as a nuisance dust.
- Ingestion: Not a probable route of exposure.
- Delayed Effects: None Known.

### **First Aid**

No specific hazards are known. This material is unlikely to present a significant health hazard under normal conditions of use.

- Eye: If irritation develops, flush eyes with running water for 15 minutes. If discomfort continues seek medical attention.
- Skin: If irritation develops, wash affected area with soap and water. If discomfort continues seek medical attention.
- Ingestion: Wash out mouth with water to remove any fibre. If a large amount has been swallowed induce vomiting and seek medical attention.
- Inhalation: If processing vapour occurs and irritation develops, remove person to fresh air. If discomfort persists, seek medical attention.

### **Storage and Handling**

Product stable under normal conditions. No dangerous reactions with standard products. No special measures are needed to protect against fire or explosion. For optimum quality of the product during storage keep in a cool, dry dark area.

## **Fire Fighting Methods**

### *Very Low Fire Hazard*

During burning polyester will produce high levels of heat and may generate dense smoke. At complete combustion the major products formed are carbon dioxide and water. Decomposition products will also be present at much smaller concentrations.

### *Extinguishing Media*

As appropriate for surrounding materials and equipment. Any type of fire extinguisher can be used (water, CO<sub>2</sub>, halon, dry powder, etc)

### *Exposure Hazards*

Observe general fire precautions, i.e., do not inhale combustion gases.

### *Special Protective Equipment for Fire Fighters*

Use self-contained breathing apparatus when fire occurs in a confined area. The use of a solid water jet to tackle any fire is not recommended in the early stages of the fire.

## **Stability and Reactivity**

This product is stable at room temperature and does not decompose or self-react when stored under these conditions. Only at extreme temperature above the decomposition temperature will degradation occur.

## **Toxicity**

No toxicological effects known.

## **Ecological Information**

Polyester fibres are considered biologically inert, with very low UV degradability. Polyester is insoluble in water and evolves no gases or leakages known to pollute water sources. The material is ecologically neutral.

## **Disposal Considerations**

Typically fibre waste can be disposed of by:-

- Incineration in an authorised plant
- Approved landfilling
- Recycling for non-food applications

In all cases local and national regulations on waste disposal should be followed.

## **Transport Information**

No special arrangements are required for the safe transport of this material and is not classified regarding the transportation of dangerous goods.

## **ADHESIVE**

<b>Type</b>	WEB
<b>Grade</b>	EVA
<b>Weight (g/m<sup>2</sup>)</b>	25
<b>Width (mm)</b>	1540
<b>Melting range (°C)</b>	70
<b>Bond strength (N/5cm<sup>2</sup>)</b>	>5
<b>Wash resistance (40°C)</b>	-
<b>Wash resistance (60°C)</b>	-
<b>Dry cleaning resistance(°C)</b>	-
<b>Heat pressing temperature (°C)</b>	85 - 95
<b>Pressing time (S)</b>	15 - 20
<b>Pressure (kgf/cm<sup>2</sup>)</b>	0.3 – 0.5

## **FOIL**

<b>Thickness (micron)</b>	12 - 23
<b>Yield (m<sup>2</sup>/Kg)</b>	59.5 - 31.1
<b>Weight (g/m<sup>2</sup>)</b>	17 - 32
<b>Density</b>	2 - 2.5
<b>Reflectivity (Glossometer 85°C)</b>	120
<b>Light Transmittance (%)</b>	0.15
<b>Oxygen Transmission (cc)</b>	0.5
<b>Moisture Vapour Transmission (g)</b>	0.6
<b>Tensile Strength (Kgf/mm<sup>2</sup>) MD</b>	20
<b>Tensile Strength (Kgf/mm<sup>2</sup>) TD</b>	26
<b>Elongation (%) MD</b>	125
<b>Elongation (%) TD</b>	80
<b>Melt Temperature (°C)</b>	255

### **Disclaimer:**

The information provided above is correct to the best of our knowledge, information, and belief at the date of its publication.

The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

We do not undertake any liability for the results of usage of the product.

In all cases it is the responsibility of the user to determine the applicability of this information for their own intended use.