

## **Polyester Non-Woven MSDS**

### 1. Product identification - PET non-woven Mat

**General Industrial Polymers L.L.C.**  
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### 2. Composition

Identification of the type of nonwoven product

Nonwoven: Felt

Chemical bonded

Mechanical bonded

Carded web

Fibers nature:

PET

Recycled

Virgin

Web surface treatment - Concentration above 1%: no

Binder: yes (10÷15% vinyl-acrylic, styrene-acrylic, melamine and/or ureic resins)

Additives: yes (color pigments)

Other major components: yes (glass fiber filaments)

Chemicals (in relevant concentration) that are in the list of dangerous substances: no

Notes: The resins, in aqueous solution, are dried at 200÷220°C and are chemically stable after solidification. The product is longitudinally reinforced with glass fiber filaments: they are spaced out at 6÷8 mm, depending from article type.

### 3. Hazards identification

Nonwoven: no hazardous product under normal conditions.

Accidental thermal decomposition or melting state can present hazards.

### 4. First-aid measures

Under normal condition

Inhalation: no specific measure to be taken

Skin contact: no specific measure to be taken

Eyes contact: no specific measure to be taken

Ingestion: no specific measure to be taken

## 5. Fire fighting measures

Suitable extinguishing media: use water spray, dry chemical or CO<sub>2</sub> extinguisher  
Extinguishing media not to be used: none (do not use water if electrical equipment are present)  
Special exposure hazard: for flammable and toxic fumes as well as skin contact with molten materials see § 10  
Special protective clothing for fire-fighter: none

## 6. Accidental release measures

Not applicable.

## 7. Handling and storage

Normal requirements. The packages have to be handled so that they can not break and to be arranged as to prevent them from falling.

## 8. Exposure controls / personal protection

No specific measures.

## 9. Physical and chemical properties

Aspect: solid, in rolls or sheets  
Appearance (the color of the product as supplied): white green  
Odor: practically odorless  
pH: not applicable  
Boiling point/boiling range: not applicable  
Melting point/melting range: approx. 195°C (CoPET)  
Approx. 260°C (PET)  
Approx 1.200°C (glass fiber)  
Decomposition temperature: > 380°C (PET fiber, tech. liter.)  
Flash point: not applicable  
Flammability: not easily flammable (see § 10)  
Auto flammability: 508°C (autoign. temp. PET)  
Explosive properties: not applicable  
Oxidizing properties: not applicable  
Vapor pressure: not applicable  
Specific weight: 1.3÷1.4 g/cm<sup>3</sup> (PET)  
2.6 g/ cm<sup>3</sup> (glass fiber)  
Static electricity: the product can develop and/or accumulate static electricity, i.e. by rubbing or friction  
Solubility: water insoluble - fat insoluble

Soluble in o-chlorophenol, dichloroacetic acid, phenol/ tetrachloroethane, esafluoro-isopropanol (PET fiber)  
Partition coefficient (n-octanol/water): not applicable

#### 10. Stability and reactivity

Conditions to avoid:

Under thermal decomposition flammable and toxic fumes can be generated. Above 300°C may be released: toxic and flammable gases, carbon monoxide. The generation of cleavage and oxidation products is subject to fire conditions. Non burned residues and contaminated water after fire fighting should be disposed of in compliance with official regulations.  
Molten material should not be allowed to be in contact with the skin to which can adhere and cause burns.

#### 11. Toxicological information

No toxic reaction known under normal conditions. Particularly, no case of coetaneous sensitization or of mutagenic / carcinogenic activity is known.  
Note: under decomposition conditions, toxic fumes and contaminated water see § 10.

#### 12. Ecological information

For transportation, storage and normal use no toxicological effect known.  
Possible water pollution, if components washed out.

#### 13. Disposal considerations

As non hazardous solid waste, depending on local registration, nonwovens can be disposed of through recycling, incineration and landfill.

#### 14. Transport information

Not classified as dangerous for transport.

#### 15. Regulatory information

Not classified as dangerous in compliance with Italian and European regulation regarding classifying, packaging and labeling of hazardous substances and products.