

AITEX INSTITUTO TECNOLÓGICO TEXTIL

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Plaza Emilio Sala, 1-1* E-03801 Alcoy (Alicante)



The applicant:

ATARFIL, S.L. Crta. de Codoba km 429 18230 ATARFE - GRANADA

is authorized to place the label " Certificate of Reaction to Fire of Construction Products " according to the report Nº 2006AN1234

> AITEX INSTITUTO TECNOLÓGICO TEXTIL

CERTIFICATE OF REACTION TO FIRE OF:

CONSTRUCTION PRODUCTS

Nº 06AN1234

The sample reference

"ATARFIL HD N° BOBINA H1M521002T 2.50 mm"

has been tested according to the standards UNE EN ISO 11925-2:2002. The classification according to standard UNE EN 13501-1:2002 is:

"E"

This certificate has validity until the February 27th 2011

Alcoy, February 28th 2006.

Vicente Blanes Julià MANAGING DIRECTOR

Raquel Muñoz González HEAD OF FIRE BEHAVIOUR DEPT.





1. Product Identification

Commercial name:	Geomembrane ATARFIL HD
Chemical name:	Polyolefin
Formulation:	(C2-H4) n
Manufacturer:	ATARFIL
Location:	

EUROPE: Ctra. de Córdoba, Km 429 -18230 Atarfe - Granada - SPAIN MIDDLE EAST: P.O. Box 263122, Jebel Ali Free Zone - Dubai - U.A.E. AMERICA: 324 Moore Avenue, Suffolk, Virginia VA 23434 - USA

2. Composition

General composition: Polyolefin and Additives

Dangerous components: None

3. Hazard Identification

Physics and chemistry: Risk of crushing during the handling of the rolls during the unloading, elevation or unrolling on the field.

Toxicology (symptoms):

- INHALATION: Irritating vapours to respiratory system and eyes may form when polymer is processed at high temperatures.
- INGESTION: No effects are expected for ingestion of small amounts.
- SKIN: Unknown acute effects resulting from skin contact.

4. First Aid Measures

Inhalation: Allow the victim to rest in a well - ventilated area.

Ingestion: No first aid procedures are needed.

Skin contact heated polymer: For serious burns from heated polymer, get medical attention.

Eye contact: Rinse with water for a few minutes. Seek medical attention if necessary.

General measures: To request medical help

5. Fire Fighting Measures

Fire fighting media: foam AFFF, Dry chemicals, CO2, water spray or foam.

Contraindications: not present

Products of combustion: Carbon oxides (CO and CO2) and soot.



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Special measures: Remove the rolls from he fire, if it's possible without any risk. In case of intense fire in the loading zone, use a fire fighting media, without direct human manipulation to avoid any risk. Apply the security and emergency plan.

Special danger: The heated polymer can extend the fire. Fire may produce irritating gases and dense smoke.

Protective clothing: Wear gloves and suit heat resistance. Approved self-contained breathing apparatus.

6. Handling

Handling: Non smoking, eating or drinking during the manipulation of the product. Eliminate all the sources of ignition in the storage place, specially if there's dust accumulation. Preventive measures for loading jobs.

Special conditions: Safety mask should be in presence of heated polymer vapour (only in the case of being in a closed space).

Uses: It's allowed to be its use in contact with food.

7. Exposure Controls/Personal protection

Personal protection:

- RESPIRATORY: Safety mask are required in the presence of heated polymer vapour (only in the case of being in a closed space).
- Hands: Thermally insulated gloves are required when handling hot material
- EYES: Safety glasses should be worn when the polymer is melted

8. Storage

Temperature and decomposition products: No addi tional remarks.

Dangerous reaction: No addi tional remarks.

Storage conditions:

It is very important to be careful during unloading operations and storage of the goods. The storage of the rolls must be fulfilled using the following conditions:

- Floor should be as flat as possible.
- Storage area should be kept clean of sharp objects.
- Storage in a pyramidal scheme.
- The rolls in the base must be very well packet to avoid lateral movements.



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9. Physics and Chemicals properties

- **Physics state and appearance:** rolls with a width between 6.00 m (19,7 feet), 6.30 m (21.3 feet) and 7.50m (24.5 feet), the minimum weight 1100Kg (2425lb).
- Colour: black.
- pH: not applicable
- **Melting point:** from 124 ° to 135° (crystalline)
- Inflammability point: 300 °C
- Autoinflammability: not available.
- Explosive propierties: not available.
- Combustion properties: not available.
- Boiling/condensationpoint: not available.
- Solubility in water: Insoluble in water.
- Density: >0,940 gr/m3 at 23° C
- Combustion heating: 11.000 cal/g
- **Solubility:** at melting point temperatures is soluble in bencene, xylene, toluene, tryclhoroethylene and tet raclhoromethane.

10. Stability and reactivity

Stability: The material is stable at room temperature. The ATARFIL HD presents resistance against water and organic salt aquous solutions, as well as the weakness in acid and basic solutions.

Incompatibility with various substances: Incompatible or reactive with fluorine gas, oxidizing agents such as nitric, perchloric acid, free halogens, benzene, petroleum ether, gasoline, lubricant oils, aromatic and chlorinated hydrocarbons.

Hazardous decomposition products:

- Decomposition products: At temperatures above 400°C the product breaks down giving off toxical and irritant gases, in some cases traces of acroleine and formaldehyde may appear.
- Complete combustion: CO2, H2O.
- Incomplete combustion: CO, soot, aldehydes, Ketones, hydrocarbons and fatty volatile acids.

11. Toxicological information

Routes of entry: Inhalation of the melted product vapours. Direct contact with the skin and/or eyes.

Chronic effects on humans: The melted vapours of the product can produce irritation in the respiratory system and cause dermatitis by direct contact with the skin.

Carcinogenic effects: ICARC: group 3 (polyethylene is not clasificable by its carcinogenic effect in humans)

Toxicity for the fertility: no addi t ional remarks.



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12. Ecological information

Ways to eliminate the product (excess): If it is at all possible recycle the material.

Residue: solve or mix the material with a combustible solvent and burn it in a chemical incinerator equiped with a gas treating system.

Regulations: The establishments or companies dealing with the recovery, disposal, collection or transport of waste must fulfill the legislation in force for waste management in the area where the residues are located.

13. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Althought certain hazards are described herein, we cannot guarantee the one mentioned are the only existent hazards.



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MATERIALPRÜFANSTALT FÜR DAS BAUWESEN

INSTITUT FÜR BAUSTOFFE, MASSIVBAU UND BRANDSCHUTZ



1. copy

Test report

Nr. 6076/9400-He-e (08.12.2000)

Requested by:

ATARFIL, S.L. Ctra. de Córdoba, Km.429 Complejo El Rey E18230 Atarfe (Granada) Spain

Date of request: 06.03.2000

Reference: -

Received: 06.03.2000

Contents of request:

Analysis, following BAM and NRW guidelines, of a double-sided smooth geomembrane on PE-HD base, with the product denomination

"Atarfil, d = 2.0 mm" 🖉

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Date of receipt of samples: 17.04.2000

Samples: provided by manufacturer

The test report includes 3 pages and 11 annexes.

The publication of test reports, or summaries, or references to them for advertising purposes require in each individual case the written consent of this Institute. Each page in this report bears the stamp of the Institute Test of samples are used.

Materialprüfanstalt für das Bauwesen Technische Universität Braunschweig Beethovenstraße 52 D.38106 Braunschweig Tel +49-(0)531-391-5431 Fax +49-(0)531-391-4573 E-Mail mpa @tu-bs.de http://www.mpa.tu-bs.de Norddeutsche Landesbank Hannover Kto. 106 020 050 (BLZ 250 500 00) Swift-Code: NOLADE 2H USt -ID-Nr. MPA-DE 183500654 Test report Nr. 6076/9400-He-e

dd. 08.12.2000

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Properties/ TestsTest normsTest resultsDensityDIN 53479
procedure Ax = 0,947 g/cm³Normal flammabilityDIN 4102 part 1The requirements made on
building material class B2
were complied.

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x = Average value

