

QUICK VIEW	Application:	Fire Resistant Applications
	Fire Resistance Period:	60 minutes
	Insulation/Integrity:	Insulation and Integrity
	Test Standard:	BS476: Part 22: 1987
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Intumescent Sheet - 1 Hour Fire Rated

Pyroplex® Intumescent Sheet is a calendered product and is supplied in 1.8mm thickness in 50m rolls with a standard 1m width.

Pyroplex® Intumescent Sheet has been specifically designed for:

- Architectural fire resistant door protection
- Electrical protection
- Panel products for fire doors

Typically the product is used for the lining of fire door panels, safes, filing cabinets and storage boxes. It is also ideal for use under hinges, locks and door closers.

Product Data Sheet



Field of Application

Pyroplex® Intumescent Sheet has been specifically designed for:

- Architectural fire resistant door protection
Can provide a simple and concealed protection for associated door hardware. During fire situation the heat generated is conducted through the hardware, which if not protected could lead to integrity and insulation failure.
- Electrical protection
Used for protection for electrical installations, typically includes electrical box protection and conduit systems and can be die cut for down-lighters.
- Panel products
Has been used for applications including panelling systems for up-grading of specialist fire doors, where the intumescent has been laminated to the core of the door and lined with a finish facing, to provide insulation of the core in a fire situation.

Product Features

- Proven performance in terms of fire resistance
- Fully flexible, high shear and tear resistant yet easy to cut
- Supplied in 50m x 1m rolls with a 1.8mm thickness
- Unaffected by moisture

Expansion Characteristics:

The intumescent material exhibits an expansion factor of 20:1 ratio when exposed to elevated temperatures. During the heating phase the material expands multi-directionally and forms a solid char which provides a seal to maintain insulation and integrity to restrict the passage of fire.

Product Testing

Pyroplex® have carried out numerous independent fire resistance tests to confirm the suitability of the product and to demonstrate product compliance by utilising BS476: Part 22 1987 and other international standards.

For intumescent hinge applications refer to WF Report No. 167746.

Health and Safety Information

For detailed information on this product please refer to the relevant Material Safety Data Sheet which is available on request or downloadable at www.pyroplex.com.

Transportation & Storage

Transport Hazards:

No regulations apply for the transport of this material. Not classified as hazardous for road, rail, sea or air transport.

Storage:

Store dry and in a cool place (not above 35°C) and ensure sufficient ventilation.

Product Guarantee

Providing the product is installed in accordance with the requirements of the guidance document the product is guaranteed for a period of 10 years.

Quality Approval

Pyroplex® Limited has a Quality Management System that meets the requirements of BS EN ISO 9001:2000, and is independently verified by BSI Quality Assurance under Certificate FM10371.

Technical Support and Guidance

Should you require any further information regarding this product please contact Pyroplex® Limited or visit our website, www.pyroplex.com where you will be able to download Material Safety and Technical Data Sheets.

Additional Information

The information contained herein is based upon the present state of our knowledge. Recipients of our Pyroplex® products must take responsibility for observing existing laws and regulations.

Due to our policy of continuous improvement Pyroplex® Limited reserves the right to amend specifications without prior notice.

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Technical Data Sheet

Issue Date:	1st October 2007	Issue No.	1	Revision No.	1
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1. General Description

Pyroplex® intumescent sheet material can be used in a variety of fire rated applications, to provide and maintain the integrity and insulation restricting the propagation of fire and reducing its spread.

2. Product Features

- Proven performance in terms of fire resistance
- Fully flexible, high shear and tear resistant
- Supplied in 50m x 1m rolls with a 1.8mm thickness
- Unaffected by moisture
- Easy to cut

3. Field of Application

Architectural fire resistant door protection

Pyroplex® Intumescent sheet material can provide a simple and concealed protection for associated door hardware. During fire situation the heat generated is conducted through the hardware, which if not protected could lead to integrity and insulation failure.

Electrical protection

Pyroplex® intumescent material can provide intumescent protection for electrical installations, these typically include electrical box protection and conduit systems and can be die cut for down-lighters.

Panel products

Pyroplex® intumescent sheet has been used in a number of applications including panelling systems for up-grading of specialist fire doors, where the intumescent has been laminated to the core of the door and lined with a finish facing, to provide insulation of the core in a fire situation.

4. Technical Data

Expansion Characteristics

The intumescent material exhibits an expansion factor of 20:1 ratio when exposed to elevated temperatures. During the heating phase the material expands multi-directionally and forms a solid char which provides a seal to maintain insulation and integrity to restrict the passage of fire.

Technical Properties	
Relative density (specific gravity)	- 1.2
Hardness	- 43 shore A
Elongation at break	- 200%
Tensile strength	- 1 Mpa

5. Test Reports

The Pyroplex® range of products have been extensively tested in the UK, Europe, worldwide, to National and International standards.

Test Reports
Warringtonfire WF167746

6. Maintenance and Installation Records

This product is not subject to routine and replacement programmes, Pyroplex® recommend that all firestopping materials are checked on a regular basis to ensure that the product remains integral. Replace and fit any damaged components to reinstate the fire resistance.

7. Product Guarantee

Providing the product is installed in accordance with the requirements of the guidance document the product is guaranteed for a period of 10 years.

8. Quality Approval

Pyroplex® Limited has a Quality Management System that meets the requirements of BS EN ISO 9001:2000, and is independently verified by BSI Quality Assurance under Certificate Number FM10371.

9. Technical Support and Guidance

Should you require any further information regarding this product please contact Pyroplex® or visit our website, www.pyroplex.com.

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Intumescent Sheet - 1 Hour Fire Rated

Material Safety Data Sheet

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In accordance with 91/155/EEC directive		No. of Pages	1	Page No.	1 of 1

1. Field of Application

Lining material for fire rated applications.

2. Composition/Information on Ingredients

Chemical Nature: EPDM Thermoplastic element composition containing intercalated graphite in a synthetic compound with the addition of fillers and process oils.

3. Possible Hazards

Principle Hazards: Not subject to decree of hazardous substances.

Critical Hazard to Man and Environment: Not applicable

4. First Aid Measures

On Skin Contact: Wash thoroughly with soap and water

On Contact with Eyes: Wash for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On Ingestion: Rinse mouth immediately, do not induce vomiting, and seek immediate medical attention.

If inhaled: Not applicable in solid state.

5. Fire Fighting Measures

Pyroplex® intumescent material is self-extinguishing.

Suitable Extinguishing Media: Water, foam, powders and dry extinguishing media.

Special Protective Equipment: Suitable forms of PPE (personal protective equipment.)

In the event of fire, contact the appropriate emergency services for assistance.

6. Accidental Release Measures

Personal Precaution: In the event of fire ensure sufficient ventilation.

Environmental Precaution: Do not discharge the product into drains or water courses, ensure materials are disposed of in accordance with Local Authority regulations and/or Government legislation.

Methods for Cleaning Up: No special measures necessary.

7. Handling and Storage

Handling: No special requirements. Keep away from food and drink.

Storage: Store in a cool dry place (not above 35°C). Keep out of reach of children. Take care for sufficient ventilation.

8. Exposure Controls and Personal Protection

Respiratory protection: None normally required, when supplied in solid form.

Hand protection: Appropriate protective gloves.

Eye protection: Appropriate protective goggles.

Skin protection: None normally required.

9. Physical and Chemical Properties

Form:	Solid
Colour:	Black
Odour:	Odourless
Melting point/melting range:	Increase in volume by factor 25 >180°C
Density:	1.3
Solubility in water:	Unaffected by water.

10. Stability and Reactivity

Conditions to be avoided: Thermal decomposition above 300°C

Hazardous Decomposition Products:

Thermal decomposition, fumes contain hydrogen chloride.

11. Toxicological Information

Acute Toxicity: Not applicable in solid state.

12. Ecological Information

General Advice: Observe the legal provisions regarding the prevention of ground water and surface water as well as air. Do not discharge product into natural waters without pre-treatment.

13. Disposal Considerations:

Recommendations: Disposal of by special means in accordance with local regulations e.g. suitable deposition

Contaminated Packaging Recommendation:

After employing and appropriate cleaning contains can be given back to the producer.

14. Transport Information

Transport Hazards: No regulations apply for transport of material. Not classified as hazardous for road, rail, sea or air transport.

15. Regulatory Information

Labelling according to EEC directives:	
National legislation/ regulations	Not applicable
VbF Classifications	None
Water hazard class	Not applicable

16. Additional Information

All information provided in conjunction with the technical leaflet. The information contained herein is based upon the present state of our knowledge. Recipients of our product must take a responsibility for observing existing laws and regulations.

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