



## LASERFOIL DATA SHEET

### Company Name

908 Ltd  
Unit 6 Derwenthaugh Marina  
Blaydon on Tyne  
NE21 5LL  
Tel no: 0845 9008 908  
Fax no: 0845 9008 907  
[www.908ltd.co.uk](http://www.908ltd.co.uk)

### 1. Composition/Information on Ingredients

Name of the Product                      Acrylic-Polyester-plastic

#### Coating

#### Chemical characteristics

Polyester glim with pigmented lacquer coating (organic and/or inorganic pigments)

Polyester: polyethylenc terephthalate 19m, 23m

#### Core

Acrylic Copolymers

Methyl Methacrylate

### 2. Hazards Identification

#### Coating

- Risks for human health                      Not known
- Security risks                                      Not known
- Environmental risks                              Not known

## Generally

<u>DPI Hazard Rating</u>		<u>Scale</u>
Toxicity	1	4: Extreme
Flammability	1	3: High
Reactivity	0	2: Moderate
		1: Insignificant

Laserfoil is free of halogen, free of silicone and asbestos-free!

### **3. First Aid**

Inhalation	If exposed to monomer vapours generated during processing, move subject to fresh air.
Eye Contact	Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.
Skin Contact	In the case of accidental cuts, wash thoroughly with water. Consult a physician if irritation persists.

### **4. Fire-Fighting Measures**

#### **Fire and explosives properties**

Flash point:	Not applicable
Auto-ignition temperature:	393C / 739F
Explosion Data:	Not applicable
Unusual Hazards:	Material as sold is combustible. It burns vigorously with intense heat. Carbon dioxide, carbon monoxide, plus other organic and inorganic oxides will be present.
Suitable extinguishing media:	
Recommended:	Isolate hazard area. Use water spray, carbon dioxide or dry chemical to extinguish fire.  Co2-powder and foam extinguisher.

Protective Equipment: Use self-contained breathing equipment, independent from circulating air and protective clothes.

Particular risks arising from product/products of combustion/generated gases:

When burned the following substances can be formed: Carbon monoxide (CO), small quantities of nitric oxide, trace amounts of hydrogen chloride and acetic acid.

## 5. Accidental Release Measures

Protect people: Wear gloves to protect hands from being cut by sharp edges. Sweep up or vacuum all scrap.

Protect the environment: Transfer scrap material to suitable container for proper disposal.

## 6. Handling and Storage

Handling: This material can release monomer vapours or gases when heated to high temperatures during processing, cutting or machining. Proper ventilation is required. Observe the general instructions in industrial work hygiene.

Storage: This material is not hazardous under normal conditions. However, all materials of this type release some monomer vapours or gases when stored for prolonged periods at elevated temperatures. Store product at ambient temperature, avoid heat from direct sunlight and extremes of humidity.

Other recommendations: Use local exhaust ventilation with a minimum capture velocity of 100 ft/min. (0.5m/sec) at the point of vapour evolution. Refer to the current edition of the "Industrial Ventilation: A Manual of recommended practise", published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use and maintenance of exhaust systems.

## 7. Special protection information

Engineering controls: Local exhausts and general ventilation as required to maintain emissions. Suck off product dust that may be generated directly at the place of origin.

Personal Protective Equipment: Gloves and safety glasses are recommended.

## 8. Physical and Chemical properties

### Coating

Form		Solid
Change in physical melting point/melting range:		>220 deg C
Boiling point/boiling range:		N/A
Flash point:		>300 deg C
Ignition temperature:		>350 deg C
Danger of explosion:		N/A
Explosion limits:	Lower Limit	N/A
	Upper Limit	N/A
Vapour Pressure:		N/A
Density:		>1.3g/cm <sup>3</sup> at 20 deg C
Solubility in water:		at 20 deg C practically insoluble
P-H Value:		N/A
Viscosity:		N/A

## Core

<u>Category</u>	<u>Test Method</u>	<u>Unit</u>
Strength		.003, .006
<u>Black main material</u>		
Specific weight	ASTM D-972	1,26
Flexural strength	ASTM D-882	5100 P/in
Dielectric stability	ASTM D-149	Volt Mil 2200
Dielectric Constant	ASTM D-150	@60 c/s 4,8
Volume-resisting force	ASTM D-257	Ohm/cm <sup>3</sup> 1x10 <sup>16</sup>
Surface resisting force	ASTM D-257	Ohm/cm <sup>2</sup> 2x10 <sup>14</sup>
Ultimate strength	ASTM D-882	psi 3,300
Elongation strength	ASTM D-882	% min 20.0
Yield stress	ASTM D-882	psi 4,100
Tear resistance	ASTM D-882	gms 21

## White main material

Specific weight	ASTM D-972	1,26
Flexural strength	ASTM D-882	5100 P/in
Dielectric stability	ASTM D-149	Volt Mil 2200
Dielectric Constant	ASTM D-150	@60 c/s 4,8
Volume-resisting force	ASTM D-257	Ohm/cm <sup>3</sup> 1x10 <sup>16</sup>
Surface resisting force	ASTM D-257	Ohm/cm <sup>2</sup> 2x10 <sup>14</sup>
Ultimate strength	ASTM D-882	psi 3,300
Elongation strength	ASTM D-882	% min 10.0
Yield stress	ASTM D-882	psi 3,650

Tear resistance	ASTM D-882	gms 22
Appearance/physical state:	Clear to opaque	
Boiling point:	Not applicable	
Solubility in water/miscibility:	Not applicable	
Self-Flammable temperature:	393 C / 739 F	
Flash point:	Not applicable	

### 9. Stability and reactivity

Chemical stability:	This product is considered stable. However, avoid temperature above 260 C / 500 F for prolonged periods to prevent slow decomposition.
Incompatibility with Other materials:	Avoid contact with acids, alkalis and strong oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition may yield acrylic monomers. Combustion will yield carbon dioxide, carbon monoxide plus other organic or inorganic oxides. In case of burning please refer to point 5.
Hazardous polymerisation:	This product will not undergo polymerisation.
Hazardous reactions:	None when used appropriately

### 10. Toxicological information

Harmful effects due to exposure to the product are not known.

Eye contact:	Vapour from heated product can cause irritation.
Skin contact:	Vapour from heated product can cause irritation.
Inhalation:	Inhalation of vapour from heated product can cause irritation of nose, throat and lungs. It can also cause dizziness, headaches and nausea.

## **11. Ecological Information**

The product presents no risk worth mentioning for the environment.

## **12. Disposal Considerations**

Disposal: Dispose of waste in an approved waste treatment facility where permitted under appropriate federal, state and local regulations. Do not dispose of wastes with normal refuse without first applying for permission from your local regulatory body.

## **13. Transportation Information**

The product is not subject to the regulations concerning transport of dangerous goods (GGVS is the actually valid version).

## **14. Regulatory Information**

The product is not a dangerous working substance.

## **15. Other information**

The information contained herein relates only to the specific material identified. Such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, express or implied is made as to the accuracy, reliability or completeness of the information. We urge persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

This information is based on the present state of knowledge and experience. The data sheet describes products in respect of safety requirements. This information cannot be considered as a quality or product warranty.