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## DM1101 SOLAS Tape for safety at sea

### Description

DM1101 solas tape is a tough weather and solvent resistant product designed for rugged outdoor maritime use. It is compliant with U.S. Department of Transportation specification USCG 46 CFR, section 164.018/20/0 and International Maritime Organisation (IMO) resolution A.658(16) and certificated by GL Luxembourg. For application to rigid and non-rigid maritime substrates, i.e. life rafts, life buoys, life vests and life boats.

### Construction

The tape is composed of encapsulated catadioptric glass beads which are partially embedded in a layer of plastic material. It's provided a smooth surface, tough and weather-resistant UV stabilized polymeric. The tape comes with an aggressive pressure sensitive adhesive or a textile backing.

### Product Approval

IMO resolution A.658(16) Annex 2 SOLAS 74 as amended Reg.III/34 LSA-Code HSC Code(1994 and 2000) and USCG 46 CFR, section 164.018/20/0

### Film Logo Pattern



### Retroreflectivity

When illuminated with CIE illuminate A and measured with provisions of CIE No.54 the coefficient of retroreflection(RA) of DM1101 tape, the values are shown as below:

Observation angle	5°		30°		45°	
	Standard	Result	Standard	Result	Standard	Result
0.1°	180	421	140	327	85	221
0.2°	175	342	135	314	85	208
0.5°	72	163	70	131	48	96
1°	14	68	12	58	9.4	35
2°	2.5	28	2.0	20	1.0	18

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## Colour

DM1101 solas tape is available in silver (retroreflection in white). The colour shall be located in the area defined by the chromaticity coordinates provided as below, when measured in accordance with CIE No. 15 and illuminated with the CIE standard illuminant D65 using 45°/0° or 0°/45° geometry.

Colour	Chromaticity Coordinates*							
	1		2		3		4	
	x	y	x	y	x	y	x	y
Silver	0.300	0.270	0.385	0.355	0.345	0.395	0.260	0.310

## Classification

### 1) Adhesion,

DM1101A solas tape can be supplied with a pressure sensitive adhesive. The adhesive is protected by a release liner which shall be removed by peeling, without soaking in water or solvents.

Other technical data:

- a. Surface Film: PU FILM
- b. Thickness of film: 0.24mm, Thickness of Glue: 0.04mm
- Thickness of Release Paper: 0.16mm, total thickness of products: 0.44mm
- c. Weight of Release Paper: 140g/sqm, total 548g/sqm ± 10g
- d. Type of Adhesive: Pressure-Sensitive Type

### 2) Sewable on ,

DM1101B, is a silver, flexible reflective material with a sewable fabric backing.

Other technical data:

- a. Surface Film: PU FILM
- b. Thickness of products : 0.25mm
- c. 367gsm ± 10g
- d. Care and Maintenance Instructions
  - .Do not machine wash
  - .Do not bleach
  - .Do not tumble dry
  - .Do not Iron
  - .Do not dry clean

## Application Instructions

Please contact DM sales team for full instructions.

## Shelf Life and Storage

The product must be used within one year from the shipment date. All rolls including partially used rolls should be stored in original packaging, tightly wound. Store in a clean and dry area, away from direct sunlight. Store at 20° C and 50% relative humidity.

*The statements in this information sheet are based upon our knowledge and practical experience. This data is intended only as a source of information and is given without guarantee and does not constitute a warranty. Due to the wide variety of possible uses and applications customers should independently determine the suitability of this material for their specific purpose, prior to use.*