

This technical data sheet refers to the following Lighthouse product(s):

CPMS13 & CJ1304, Reflective Silver Vinyl
CPMS14 & CJ1404, Reflective Yellow Vinyl

DESCRIPTION

A flexible reflective film (engineering grade) providing wide angle reflectivity of incident light and giving excellent night and day visibility. The film consists of a layer of microscopic glass beads of high optical quality, embedded in a coloured film and reacting as lenses. A metallised back provides the mirror surface for reflection. Thanks to its flexibility, the film is easy to cut and to weed and can be applied on curved or corrugated surfaces. It has been specially developed for trouble free computer cutting and fast weeding.

TYPICAL USES

A marking film designed for 24hrs a day eye-catching decoration and identification. Designed for promotional panels and vehicle markings where application on riveted or corrugated surfaces may be required.

TECHNICAL DATA

Adhesive	High quality solvent based permanent white acrylic adhesive.
Liner	Highly stable 150 gsm white PE coated paper.
Thickness (film only) Thickness (film + adhesive) ASTM D-645	115 µm 150 µm
Durability (vertical weathering in central European climate)	5 – 7 years * ¹
Reflectivity (at -4° entrance angle and 0.2° observation angle) with the following typical coefficient of retro reflection	White: 70 cd/lux/m ² Yellow: 50 cd/lux/m ²
Face Material Data, 23°C DIN 53455 Tensile Strength Elongation at Break	>16 N/15mm >100%
Adhesive Data, 23°C FTM 1 Peel adhesion 180° on stainless steel 20 min. residence: 1 week residence:	24 N/25 mm 34 N/25 mm
Dimensional stability FTM 14 Shrinkage (48hrs at 70°C): (25cm x 25cm, sample mounted on aluminium)	<0.3%
Temperature ranges Application: End-use:	+10°C to +40°C -20°C to +90°C
Shelf Life	1 year when stored at 15 to 25°C and ± 50% relative humidity
Solvent and chemical resistance (applied on stainless steel 72 hours vents, before immersion)	Resistant to most oils, greases, fuel, aliphatic solvents, weak acids, salts and alkalis.

NOTES AND REMARKS:

*1 These use-life estimates are based upon accelerated ageing studies and outdoor exposure, under conditions experienced in vertical exposure and in "normal" temperate climates.

Exposure to severe temperatures and ultraviolet light, as well as conditions in southern European countries, and also in tropical, sub-tropical or desert regions, will cause a more rapid deterioration. This also applies to polluted areas, high altitude, horizontal and south-facing exposure.

All surfaces to which the material will be applied must be thoroughly cleaned from dust, grease or any contamination. The compatibility of paints and lacquers should be tested by the end-user, prior to use.

EDGE SEALING AND VARNISHING:

Where exposure to chemicals and solvent spillage is likely to occur, edge sealing of decals with a varnish will prevent edge lift. Correct vanishing of decals gives greater protection, and extends the use-life against prolonged effects of weathering, abrasion and other effects such as frequent cleanings.

IMPORTANT NOTICE

All Lighthouse products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects.

Published information concerning Lighthouse products is based on research, which the Company believes to be reliable, although such information does not constitute a warranty.

Because of the variety of uses of Lighthouse products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. The seller shall not be liable for damages in excess of the purchase price of the product nor for incidental or consequential damages.

All specifications are subject to change without prior notice.