

## Hi-S Cal<sup>®</sup> V800 series non-retroreflective sheeting

### Introduction

Hi-S Cal<sup>®</sup> V800 series is premium quality, durable opaque interpolymer and cadmium free film with a permanent adhesive. It was developed for use on computer plotting machines and is suitable for cutting and weeding fine detail and graphics down to approximately 5mm in size.

This range of non-retroreflective sheeting is suitable for road traffic signs manufactured to BS EN 12899-1, 2007 and is available in the following colours;

Black V803KP Medium tack adhesive

White V812  
Yellow V804  
Grey V813 } Semi positionable adhesive



**Black  
V803**



**White  
V812**



**Yellow  
V804**



**Grey  
V813**

### BS EN 12899-1; 2007 Fixed, vertical road traffic signs

7.2.2.1 Non-retroreflective sign face Visual performance

7.2.2.1.3 Daylight chromaticity and luminance factor of non-retroreflective signs

Hi-S Cal<sup>®</sup> V800 series sheeting in colours Black, White and Yellow comply with the requirements for sign face material to Table 16 NR 1.

7.2.2.1.4 Durability of visual performance

When Hi-S Cal<sup>®</sup> V800 series non-retroreflective sheeting is tested to this clause, the chromaticity and luminance factor of colours Black, White and Yellow comply with Table 16 NR 1.

7.2.2.2 Impact resistance

Hi-S Cal<sup>®</sup> V800 series non-retroreflective sheeting complies with the requirements of this clause when tested on 3mm aluminium sheet and certain other substrates.

Surface marking

Hi-S Cal<sup>®</sup> V803 Black non-retroreflective sheeting is identifiable by the symbol imprinted onto its surface shown right.



### Roll storage

Please refer to separate detailed technical information

[Roll Storage, Substrate Preparation & Application of sign face sheetings.](#)

### Application of V800 sheeting

Hi-S Cal<sup>®</sup> V800 series will bond to clean smooth surfaces of tested and approved metal, coated metal, and certain plastic sheets. Please refer to more detailed separate technical information sheet; [Roll Storage, Substrate Preparation & Application of sign face sheetings](#)

### **V800 series Health & Safety (COSHH)**

Although the adhesive contains a small amount of solvent, it is almost certain that this solvent will not be emitted from the sheeting. For further information please contact Rennicks UK for a COSHH data sheet.

### **Colour matching**

When using more than one piece of sheeting together, sheeting from the same roll should be used for uniform colour matching. Every other piece of material should be rotated by 180°, so the same roll edges come together. When required the sheeting may be overlapped by 6mm from top to bottom.

Colour matching is the responsibility of the sign manufacturer.

### **Graphic cutting**

The material must be allowed to condition, out of its box and correctly supported, ideally in a room with an ambient temperature of 15°C to 25°C (59°F to 77°F) before cutting. Upright friction and flat bed plotters are suitable for cutting **Hi-S Cal**® V800 series sheeting. Off cuts of sheeting should be stored flat or tightly wound around the outside of a core diameter of 76mm or greater.

### **Packaging & Storage of finished signs prior to installation**

Finished signs should be adequately packaged to prevent damage during handling and transit. The sheeting liner may be used against the sign face in addition to bubble wrap and the signs should be placed face to face.

The effective performance life and guarantees may be become void by mishandling, or incorrect storage and installation techniques.

[Please refer to our separate handling and storage instruction sheet.](#)

### **Sign cleaning**

Please refer to our separate information [Sign cleaning](#)

### **Durability**

When processed and applied in line with NCI instructions, **Hi-S Cal**® V800 series sheeting when exposed vertically under normal weathering conditions in the UK or Ireland can be expected to have a useful performance life as shown in the table below. However, actual performance depends greatly on type and treatment of substrate and on weathering conditions.

Type	Effective life UK & Ireland
V803 Black	12 years
V804 Yellow	7 years
V812 White	7 years
V813 Grey	7 years

### **Reliability of information**

All recommendations and technical information contained herein are based on experience and tests, which the manufacturer believes to be reliable, but their accuracy and completion are not warranted.

The user is cautioned to undertake tests to determine the suitability of a particular product for the intended application.

### **Warranty**

**Hi-S Cal**® products are warranted to be free from defects in materials and workmanship at the time of their sale. Subject to paragraph two hereof, **Hi-S Cal**® products are sold without any warranty whatsoever, including warranties of merchantability or fitness for a particular purpose. The sole remedy for failure of **Hi-S Cal**® products to conform to said warranty is the replacement of the defective products; neither the manufacturer nor the seller shall be liable for any loss, damage or injury, direct or indirect, consequential or incidental, arising from the use of or inability to use said products.

**Hi-S Cal**® products sold in the United Kingdom are sold with a warranty subject to the [Road Traffic Sign Warranty](#) agreement between Rennicks (UK) Limited, Nippon Carbide Industries Inc., and the Traffic Sign Manufacturer.



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