

Nikkalite® Crystal Grade 92800 series retroreflective sheeting

Description

Nikkalite® Crystal Grade 92800 series is a high performance microprismatic retroreflective sheeting manufactured by Nippon Carbide Industries (NCI), designed for use on road traffic signs. The sheeting construction is based on advanced prism designs which provide the driver with excellent viewing angularity of the traffic sign during the hours of darkness through a wide range of viewing angles. The material is coated with a permanent high tack adhesive protected by a plastic liner.

Physical & visual performance

Nikkalite® Crystal Grade 92800 series is certified to EN 12899-1; 2007 Fixed, vertical road traffic signs to class R3B UK under ETA 10/0069. Certificate number 0760-CPD-R10001. Further details can be provided on request.

Daytime colour and luminance factor

In accordance with CUAP table 4; Pass B2.

Minimum coefficient of retroreflectivity; R3B

The sheeting may be applied horizontally or vertically, do not mix orientations on the same sign. The strongest reflectivity is provided when the sheeting is applied horizontally.

| Obs' angle | Ent angle | White 92802 | Red 92805 | Blue 92806 | Green 92808 |
|------------|-----------|-------------|-----------|------------|-------------|
| 20° | +5° | 300 | 60 | 19 | 30 |
| | +20° | 240 | 48 | 16 | 24 |
| | +30° | 165 | 33 | 11 | 17 |
| | +40° | 30 | 6 | 2 | 3 |
| 1° | +5° | 35 | 7 | 2.5 | 3.5 |
| | +20° | 30 | 6 | 2 | 3 |
| | +30° | 20 | 4 | 1.5 | 2 |
| | +40° | 3.5 | 1 | # | # |
| 1.5° | +5° | 15 | 3 | 1 | 1.5 |
| | +20° | 13 | 2.5 | # | 1 |
| | +30° | 9 | 2 | # | # |
| | +40° | 1.5 | # | # | # |

indicates "Value greater than zero but not significant or applicable".

Processing information

The sheeting can be processed by the following methods;

- A100 coloured overlays.
- Screenprinted with N3600 inks
- Digitally printed on Mutoh Zephyr TS UVIJ printer

Further details can be provided on request.

For further technical information refer to;

- Sign shop processing instructions
- On site storage instructions
- Sign cleaning procedures

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 contact Rennicks UK for a MSDS data sheet.

Durability

When processed and applied in line with NCI instructions, Nikkalite® 92800 Crystal grade 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. Actual performance depends greatly on type and treatment of substrate and on weathering conditions.

| Product code | Effective life UK & Ireland |
|--------------|-----------------------------|
| 92802 White | 12 years |
| 92805 Red | 12 years |
| 92806 Blue | 12 years |
| 92808 Green | 12 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

Nikkalite® products are warranted to be free from defects in materials and workmanship at the time of their sale. Subject to paragraph two hereof, Nikkalite® products are sold without any warranty whatsoever, including warranties of merchantability or fitness for a particular purpose. The sole remedy for failure of Nikkalite® 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.

Nikkalite® 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.