



TECHNICAL DATA SHEET - PLOTTER VINYL - RETROREFLECTIVE PERMANENT NIKKALITE RA1 Class (P8100 series)

Range of products comprising of a 175- μ m, multi-layered film, which is composed of acrylic resin and glass micro-beads and coated with a pressure-sensitive adhesive. Glossy surface finish.

FILM FEATURES:

- | | <u>Average values</u> |
|--|-----------------------|
| • Thickness (μ m): | 175 |
| • Elongation at break (%): | 24 |
| • Shrinkage at the border 72 hours at 71.1 °C (160 °F) (mm): | < 0.3 |
| • <u>Day chromaticity</u> : The colours comply with the requirements stated in the CR1 table of the European standard EN12899:1-2007. | |
| • <u>Retroreflective coefficients</u> (measured according to the method stated in the European standard EN12899:1-2007): The films of the P8100 series are RA1 classified. | |

α (Observer angle)	β (Entrance angle)	Coefficient (Cd/lux/m ²)						
		White (P8112)	Yellow (P8104)	Red (P8135)	blue (P8106)	Orange (P8107)	Green (P8108)	Brown (P8109)
1/3 °	+ 5 °	79.4	63.5	20.9	7.1	53.0	19.4	4.3
	+ 30°	49.7	39.7	15.4	4.9	30.7	11.6	1.4
	+ 40°	29.1	18.7	10.4	3.2	16.2	7.1	0.7
2 °	+ 5 °	7.2	4.6	2.3	0.7	2.8	1.9	0.6
	+ 30°	6.4	4.0	2.1	0.6	2.8	1.7	0.5
	+ 40°	5.3	3.4	1.8	0.5	2.5	1.3	0.3

For all colours, the average retroreflective coefficients (see above table) are higher than the minimum required by the EN12899:1-2007 standard.

ADHESIVE PROPERTIES:

- | | <u>Indicative value</u> |
|--------------------------------------|-------------------------|
| • Peel strength test 180° (N/25 mm): | 20 |

ADHESIVE:

- Pressure-sensitive adhesive.
- Permanent adhesion, optimal after 48 hours of contact and complete after 7 days.

USER'S INSTRUCTIONS:

- Minimum cutting size by digital system: 5 cm.
- Apply the film without exerting any tension on it.

The film is a fragile product that can tear when it is stretched.

- Keep the Nikkalite film frost-free for 7 days after application.
- In the case of an already painted substrate, self-adhesive media must only be applied to undamaged original paintwork. If the paintwork is not original and/or damaged, the application and the removal are at the judgement and risk of the installer.

STORAGE:

- Shelf life (before use):

The shelf life of this film is 1 year when stored horizontally in its unopened original packaging, at a temperature ranging from 20 °C to 35 °C (+68 °F to +95 °F) with relative humidity between 30 % and 80 %. Never store the roll vertically standing on its cut edge.

DURABILITY:

- Vertical outdoor exposure:
Orange (P8107): 5 years.
Other colours: 7 years.

NOTES:

Due to the great variety of substrates and the growing number of new applications, the installer must check the suitability of the medium for each application. The measuring methods for the standards quoted above served as the basis for the development of our own measuring methods, which are available on request. Please feel free to contact us to get the latest instructions in use. All the published information is based on measurements regularly performed in the laboratory. It does not however constitute a binding guarantee. The seller cannot be held liable for indirectly related damages and assumes no liability for claims that are higher than the replacement value of the purchased product. All specifications are subject to potential changes without prior notice. Our specifications are automatically updated on our website www.hexis-graphics.com.