



TECHNICAL DATA SHEET - RETROREFLECTIVE MARKING
REFLECTIVE TAPE - VCI04R Range - ECE104 Standard Class C
Application to VEHICLE BODY

Self-adhesive reflective tape of less than 200 μm , composed of reflective microprisms on a flexible polymer film, stabilised against UV-rays and weather resistant. Intended for the line and contour marking on vehicle bodies.

The colour (white, red and yellow) and the reflectance comply with the ECE104 Standard Class C.

FEATURES:

Average values

- Thickness (μm): ≤ 200
- Width of self-adhesive tape (mm): 50
- Reflected colours (nighttime colours): comply with the requirements in the table below (CIE, illuminant A, 20-degree angle, $\beta_1 = \pm 5^\circ$, $\beta_2 = 0^\circ$).

Colours	Chromaticity coordinates in the CIE diagram*							
	1		2		3		4	
	x	y	x	y	x	y	x	y
White	0.373	0.402	0.417	0.359	0.450	0.513	0.548	0.414
Yellow	0.585	0.385	0.610	0.390	0.520	0.480	0.505	0.465
Red	0.720	0.258	0.735	0.265	0.665	0.335	0.643	0.335

* The 4 pairs of coordinates determine whether the colour is acceptable when measured with a standard illuminant D65.

- Reflection: the reflection coefficient R' is always higher than the values detailed in the table below (CIE no. 54, standard illuminant A, 0.33-degree angle).

Colours	Observer angle	Retroreflection				
		β_1	0°	0°	0°	0°
		β_2	5°	20°	30°	40°
White	R' (cd/lux/m ²)	450	NA	200	95	16
Yellow	R' (cd/lux/m ²)	300	NA	130	75	10
Red	R' (cd/lux/m ²)	120	60	30	10	NA

USER'S INSTRUCTIONS:

- Easy to apply, thin film.
- Sealing varnish is not necessary.
- Homologation: ECE104 Class C.
- Recommended application temperature: +15 °C to +25 °C (+59 °F to +77 °F). The temperature must be stable for at least one hour following application.
- Use a clean, non-abrasive cloth and a mild cleaner such as HEXIS'O to clean the surface prior to application.
- Apply only to even and homogeneous surfaces. Do not apply to rivets.
- The reflective tapes for vehicle bodies must be dry applied.
- Avoid moving the vehicle in the first hour following the 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 3 years when stored unopened in its original packaging at a temperature ranging from +20 °C to +35 °C (+68 °F to +95 °F) with relative humidity between 30 % and 80 %.

DURABILITY:

- Up to 7 years.

These results were obtained from a vertical outdoor exposure, for central European climate. The film durability depends on the climatic environment, inclination, as well as on the substrate preparation and film maintenance. An inclined exposure in hot climate (deserts, tropics, etc.) may result in a decrease of the film's durability.

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.