



DATA SHEET REFLECTIVE MARKING REFLECTIVE TAPE ECE104 Standard Class C Application on curtainsided vehicles

Self-adhesive reflective tape of less than 300µm, composed of reflective microprisms on a flexible polymer film, stabilised against UV-rays and weather resistant. Destined for the line and contour marking of curtainsided vehicles.

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

SPECIFICATIONS:

Average values

- Thickness (µm): ≤ 300
- Self-adhesive width (mm): 50
- Colours (daylight colours): comply with table (CIE Number 15, illuminant D65, 45° angle).

Colours	Chromatic coordinates (CEI) *								
	1		2		3		4		Y
	x	y	x	y	x	y	x	y	
White	0,300	0,270	0,385	0,355	0,345	0,395	0,260	0,310	>0,25
Yellow	0,545	0,454	0,487	0,423	0,427	0,483	0,465	0,534	>0,16
Red	0,690	0,310	0,595	0,315	0,569	0,341	0,655	0,345	>0,03

* the 4 sets of coordinates determine whether the colour is acceptable when measured with a standard illuminant D65, labscan Hunter.

- Reflected colours (nighttime colours): comply with table (CIE, illuminant A, 20° angle, $\beta_1 = \pm 5^\circ$, $\beta_2 = 0^\circ$).

Colours	Chromatic coordinates (CEI) *								
	1		2		3		4		Y
	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	

- **Reflection:** the reflection coefficient R' is always higher than the values detailed in the table below. (CIE Number 54 , Illuminant standard A, CIE Number 54).

Colours		Reflection				
Observation angle	$\beta 1$	0°	0°	0°	0°	0°
	$\beta 2$	5°	20°	30°	40°	60°
White	R' (cd/lux/m ²)	450	na	200	90	16
Yellow	R' (cd/lux/m ²)	300	na	130	75	10
Red	R' (cd/lux/m ²)	120	60	30	10	na

The unit is cd/lux/m².

ADHESIVE PROPERTIES:

- Peel 24 hours after application (N/25mm): 10

RECOMMENDATIONS FOR USE:

- Thin film easy to apply.
- No sealing varnish.
- Homologation: ECE104 Class C.
- Recommended application temperature: +15 °C (59 °F) to +38 °C (100 °F). The temperature must stable during at least one hour after application.
- To clean the surface before application use a clean, non-abrasive cloth and a mild cleaner of the type Hexis'O.
- Only apply to even surfaces. Do not apply unto holes or torn areas.
- Reflective tape for curtainsided vehicles must be dry applied.
- Do not move the vehicle or fold the material within one hour after application.

SHELF LIFE:

- Storage (before application):

1 year if stored unopened in the original packing in a cool and dry place at an ambient temperature of 23 °C (73.4 °F) at 50 % relative humidity.

DURABILITY:

- 3 years if applied on a new substrate.

These results are obtained with vertical outdoor exposure under central European climatic conditions. The durability of the films depends on climatic conditions, the angle of exposure, as well as on the preparation of the substrate and the maintenance of the film. Exposing the film at an angle in a hot climate (desert, tropics...) may result in the diminution of the durability of the films.

NOTE:

The methods of measuring for the standards quoted above are the basis for the development of our own measuring methods which are available on request (partial application). You are invited to enquire for the latest instructions in force. All data are believed to be correct but do not constitute a warranty, representation or promise, express or implied as to the condition, quality, merchantability, fitness for a product, or that such product will satisfy any requirement for a specific property or capacity or special methods, all such warranties being hereby expressly disclaimed. The buyer has to determine the suitability of the materials for the intended purpose prior to purchase. HEXIS S.A. or its affiliates assume no liability for claims beyond the replacement value of any product proven to be defective in material or workmanship and is in no way liable for direct, indirect, special, incidental damages or consequential loss including without limitation lost profits or loss of use, whether based on contract, tort or any other legal theory. Product specifications may change without prior notice. Our website is automatically updated: www.hexisgroup.com.