



Conspicuity Marking Tape

Series DMCT1700

DMCT1700 Conspicuity Marking Tape Series is a non-metalized micro prismatic reflective sheeting meets and exceeds the requirements of ECE104 and FMVSS108. With the PMMA front film and its retroreflective system of sealed cells of air backed microprisms and using total internal reflection, DMCT1700 series is highly reflective, durable and self-adhesive sheeting with great weather resistance. This product is designed to use on the trucks, trailers and other heavy and long vehicles that require a long-term durability.

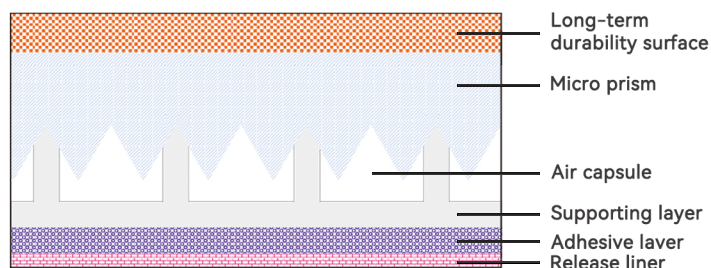
Properties: DMCT1700 series conspicuity marking tape has a sealed air cells system of microprisms with excellent retroreflectivity. The PMMA overlay provides the rolls a durability of more than 7 years. DMCT1700 Series Sheetting is available in 4 colors.

Application: DMCT1700 series conspicuity marking tape meets the requirements of ECE104 and FMVSS108. It can be applied to trucks, trailers, other heavy and long vehicles etc.

Product Codes by Color

| Color | | Product Code |
|-------------|-----|--------------|
| White | ○ | DMCT1700 |
| Yellow | ● | DMCT1700 |
| Red | ● | DMCT1700 |
| White & Red | ○ ● | DMCT1700 |

Structure



Retroreflectivity

DMCT1700 Conspicuity Marking Tape Series is a non-metalized micro prismatic reflective sheeting meets and exceeds the requirements of ECE104 and FMVSS108. The required minimum retroreflection is shown in table 1 and table 2 below:

ECE104 type
Coefficient of Retroreflection (cd/lx/m')

| Table 1- Specific coefficient of retroreflection(cd/lx/m²) | | | | |
|--|-----------|-----|-----|-----|
| Observation angle | 20(0.33°) | | | |
| Entrance angle | 5° | 30° | 40° | 60° |
| White | 450 | 220 | 90 | 16 |
| Yellow | 300 | 130 | 65 | 10 |
| Red | 120 | 60 | 30 | 10 |

Table 1

FMVSS108 type
Coefficient of Retroreflection (cd/lx/m')

| Table 1- Specific coefficient of retroreflection(cd/lx/m²) | | | | | |
|--|------|------|------|------|-----------|
| Observation angle | -4° | | 30° | | 45° |
| Entrance angle | 0.2° | 0.5° | 0.2° | 0.5° | 0.2° 0.5° |
| White | 250 | 65 | 250 | 65 | 60 15 |
| Red | 60 | 15 | 60 | 15 | 15 4 |

Table 1

Daytime colour specification and Luminance

| Table 2- Chromaticity coordinates (DIN6171:2003-08) | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------------|
| Colour | 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 |

Table 2

Daytime colour specification and Luminance

| Table 2- Chromaticity coordinates (DIN6171:2003-08) | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------------|
| Colour | 1 | | 2 | | 3 | | 4 |
| | x | y | x | y | x | y | x y |
| White | 0.350 | 0.300 | 0.300 | 0.310 | 0.290 | 0.320 | 0.340 0.370 |
| Red | 0.690 | 0.310 | 0.595 | 0.315 | 0.569 | 0.341 | 0.658 0.342 |

Table 2

Adhesive

The adhesive is protected by a release paper, which shall be removed by peeling, without soaking in water or other solvents. A 25 mm strip shall provide a bond such that it shall support a 800 g weight for 5 minutes without the strip peeling for a distance of more than 50 mm when applied to a smooth aluminium surface as specified in the standard adhesion test.

Application Instructions

Material must be applied when the air and surface temperature is between 15° C and 38° C to assure proper adhesive bonding. Surfaces must be cleaned for all grease, oil and dirt. Use a clean towel and isopropyl alcohol or similar to wipe the surface before application. If any air bubbles are trapped, use a pin to puncture the bubble and squeegee to push the air towards the pin hole. Please contact DM sales team for complete application instructions.

Maintenance and Cleaning

Hand wash with sponge, cloth, or soft brush using warm water and detergent. The cleaner must be wet, non-abrasive, without strong solvents and have a pH value between 3 and 11 (neither strongly acidic nor strongly alkaline). Rinse thoroughly.

To remove grease, oil, or tar, use cloth moistened with heptane, VM&P naphtha or mineral spirits. Wash with detergent and water then rinse thoroughly.

Using high pressure cleaning equipment, the following conditions should be applied:

- Maximum pressure 80 bar
- Maximum temperature 60°C
- Minimum of 1 metre distance of cleaning jet from sheeting surface
- Cleaning wand to be held at no greater angle than 15 degree from perpendicular to the sheeting surface
- Wide spray pattern

Storage and Shelf Life

The combined shelf life as processed and unprocessed marking tapes cannot exceed 2 years from the date of receipt from DM. However, the tapes must be used within 1 year of processing even if the combined shelf life is less than 2 years.

Store the tape in a clean, dry area and away from direct sunlight.