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## Technical Specifications

# PAVEMENT MARKING TAPE HEAVY DUTY

### **I. SCOPE**

This specification describes a pavement striping tape which is designed to provide reflective delineation under both dry conditions and conditions of moderate rainfall.

### **II. DESCRIPTION**

The pavement striping material shall consist of white or yellow weather and traffic resistant reflective film on a conformable backing pre-coated with a pressure sensitive adhesive.

### **III. REQUIREMENTS**

**A. Color** - The striping material shall be of white or yellow color as specified for pavement markings.

**B. Reflection** - The white and yellow striping material shall be reflex-reflective, reflecting white or yellow respectively and shall be readily visible when viewed with automobile headlights at night and shall have the following minimum reflective values at 0.2 and 0.5 divergence measured in accordance with the photometric testing procedures of Federal specification L-S-300A "Sheeting and Tape, Reflective: Non-exposed Lens Adhesive Backing", Para. 4.4.7 or as amended. Reflective value shall be expressed as candle-power per foot candle per stripe measured on a 2.5 by 2 foot panel at 86° incidence (a typical stripe is 4" x 15" = 5 square feet).

<i>Div. Angle</i>	<i>White</i>	<i>Yellow</i>
0.2°	1.00	0.90
0.5°	0.90	0.80

White and yellow striping material immersed in distilled water removed and allowed to drain at an angle of 4° with the horizontal for 15 seconds shall have minimum reflective values expressed as candle-power per foot candle per stripe as follows:

<i>Div. Angle</i>	<i>White</i>	<i>Yellow</i>
0.2°	0.50	0.45
0.5°	0.45	0.40

**C. Adhesive** - The striping material shall have a pre-coated pressure sensitive adhesive which shall not require a liner or activation.



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Material applied and tested in accordance with ASTM-01000-68 shall show minimum adhesion values as follows:

<u>Application Temp.</u>	<u>Test Temp.</u>	<u>Minimum Adhesion Value (Gms/Inch in width)</u>
50°F	0°F	500
75°F	75°F	500
115°F	115°F	1000

**D. Application Properties** - The material shall adhere to asphalt and concrete surfaces when applied according to manufacturer's recommendations at surface temperatures down to 50°F and shall require no protective devices such as traffic cones or barricades after application.

**E. Conformability** - The striping material shall be thin, flexible, formable, and following application shall remain conformed to the texture of the pavement surfaces.

The average thickness of the material, as determined by five micrometer reading, will not be less than 25 mils nor more than 40 mils.

**F. Removability** - Striping tape shall be removable by following the manufacturer's recommendations so long as the material is substantially intact. Removal shall not require sandblast; solvent or grinding methods and shall not result in objectional staining of the pavement surface.

**G. Durability & Wear Resistance** - The striping material applied in accordance with manufacturer's recommended procedures shall be water resistant and show no appreciable fading, lifting or shrinkage during the useful life of the line. Samples of material applied to standard specimen plates and tested in accordance with Federal Test Method Standard No. 141. Method 6192 using a CS-17 wheel; and 1000 gram load shall not wear through to the metallic surface after 5000 cycles.

**H. General** - The striping material as supplied shall be of good appearance, free from cracks and edges shall be true, straight and unbroken. The material shall be available in rolls and there shall be no more than (1) splice per 50 yards of length.

The striping material shall be packaged in accordance with accepted commercial standards.

The striping material as supplied may be stored at temperatures up to 100°F for periods up to one year after purchase.