
Standard Specification for White and Yellow Reflective Thermoplastic Striping Material (Solid Form)

AASHTO Designation: M 249-12 (2020)

Technical Subcommittee: 4c, Markings and Coatings

Release: Group 2 (June)



**American Association of State Highway and Transportation Officials
555 12th Street NW, Suite 1000
Washington, D.C. 20004**

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1. SCOPE

- 1.1. This specification covers a reflectorized thermoplastic pavement striping material that is applied to the road surface in a molten state by mechanical means with surface application of glass beads at a rate specified by the purchaser or the manufacturer. Upon cooling to normal pavement temperature, the applied thermoplastic produces an adherent retroreflective stripe of specified color, thickness, and width capable of resisting deformation by traffic.
- 1.2. The values stated in SI units are to be regarded as the standard.

2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*
 - M 247, Glass Beads Used in Pavement Markings
 - T 250, Thermoplastic Traffic Line Material
- 2.2. *ASTM Standards:*
 - D36/D36M, Standard Test Method for Softening Point of Bitumen (Ring-and-Ball Apparatus)
 - E1710, Standard Test Method for Measurement of Retroreflective Pavement Marking Materials with CEN-Prescribed Geometry Using a Portable Retroreflectometer
- 2.3. *Federal Standards:*
 - Fed. Std. No. 141, Paint, Varnish, Lacquer, and Related Materials: Methods of Inspection, Sampling and Testing
 - Fed. Std. No. 595b, Colors Used in Government Procurement

3. MATERIALS

- 3.1. The thermoplastic material shall be homogeneously composed of pigment, filler, resins, and glass reflectorizing spheres.
 - 3.1.1. The thermoplastic material shall be available in both white and yellow.
 - 3.1.2. The resin shall be alkyd or hydrocarbon as specified by the purchaser.