



TOM Temporary Overlay Marker Work Zone (WZ) Grade Material Specifications

1) Design

The overlay marker shall consist of an L-shaped marker a minimum of 2.0 inches tall by 1.125 inches deep, with 0.060 inch (min.) walls, comprised of a base and an upright vertical reflector with two protective I-beams running the length of the marker. All markers shall be capable of sustaining numerous direct wheel-over impacts at 60 MPH (100 KPH) without losing adhesion to the roadway or sustaining damage to the marker body, vertical reflector or the reflective tape applied to the marker. All markers shall be constructed of virgin thermo-plastic polyurethane (TPU) for superior durability, conforming to the following material specifications:

Property	ASTM Test	Results
Specific Gravity (min.)	D 792	1.19
Hardness (min.)	D 2240	80 A
Tensile Strength @ yield, (min PSI)	D 412	4,600
Ultimate Elongation (min)	D 412	330
Compression Set (22 hrs @ 70° C)	D 396	65
Tear Strength (min PLI)	D 624, Die C	600
Taber Abrasion (CS17 Wheel)	100 cycles	3 mg

2) Standard Colors

The flexible overlay marker body shall be constructed of 100 % virgin urethane polymers and colors to ensure quality & performance. The color shall be solid throughout and match the color of the lane line on which they will be placed.

3) Reflective Performance

Reflective tape ¼-inch wide shall be affixed along the top of the vertical upright portion of the marker inside the I-beam on one or both sides. The tape shall be a cube-corner micro-prism material with the following minimum optical performance:

Reflector & Marker Color	Grade	SI*	CIL*
White	Work Zone	3.50	320
Yellow	WZ	2.50	230

* Specific Intensity (SI) or Coefficient of Luminous Intensity shall be measured at 0.2° observation angle and -4.0° entrance angle, and expressed in CD/FC or MCD/LUX, respectively.



4) Adhesive

All markers shall be self-adhesive, with a solid butyl rubber adhesive factory-applied to the entire length of the marker base. The butyl shall be a minimum of 0.125" thick and 0.75" wide on 1.0" wide release paper and of sufficient quality to secure the marker to the roadway and retain its position on the roadway without dislocation.

5) Lengths

All markers shall be supplied in nominal 4.0-inch lengths.

6) Packaging

Markers shall be packed in boxes of 500 pieces such that the vertical reflector will not take a permanent set in excess of 15° from true vertical with respect to the base.

7) Availability

TOM Markers are manufactured by and available from:

Pexco, LLC

3110 70th Ave East

Tacoma, WA 98424

USA

253-284-8000