

rayolite®

MODEL 2004

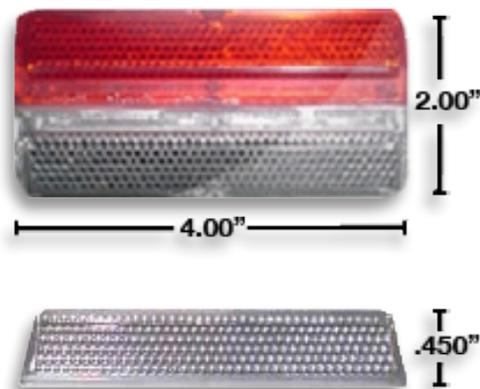
Long-Life and Standard Reflectors

Description:

Model 2004 is a snow-plowable-type reflective pavement marker designed for slot mounting or as a replacement reflector for most snow-plowable castings. An abrasion resistant coating is chemically bonded to the lens surface to protect it from the grinding action of dirt, sand and contact from traffic volume.

Material:

Reflective lens and the housing shall be molded of optic grade methyl methacrylate. The fill material shall consist of inert thermosetting compound with filler designed for impact and wear resistance.



Specifications

Design and shape:

Reflective pavement marker shall measure 2 inches (nominal) by 4 inches. The maximum height shall be 0.45 inches. The bottom of the marker shall be of a roughness comparable to a fine grade of sandpaper.

Reflective Area:

2.0 square inches

Packed:

100 per carton

Weight:

Approximate weight of 16 lbs. per carton

Optical Requirements

Horizontal entrance angle shall mean the angle, in a plane parallel to the base of the marker, between a line in the direction of the incident light and a line perpendicular to the leading edge of the reflective surface. Divergence angle shall mean the angle at the reflector between the observer's line of sight and the direction of the light incident on the marker. Specific intensity shall mean candle power of the returned light at the chosen divergence and entrance angles for each foot candle light.

Optical Performance

The specific intensity of the reflecting surface at 1/5 degree divergence angle shall not be less than the following when the incident light is parallel to the base of the marker.

Readings After Abrasion Testing
(Method ASTM 4280 Section 9.22)

HOR. ENG. ANGLE	CRYSTAL	C.P. AMBER	RED
0 degrees	3.0	2.0	.75
20 degrees	1.5	1.0	.30

Compression Strength

1. Compression testing machine with a capacity of at least 5,000 lbs. and a rate capability of 0.2 inch per minute
2. Steel ring 1" high, 3" internal diameter and ¼" wall
3. Solid metal plug 1" diameter and 1" high
4. Protective eye glasses or shield

Lens Type



Testing Procedure

1. Place the metal ring in the testing machine and center the marker base down upon the ring.
2. Center the solid metal plug on top of the marker.
3. At a rate of 0.2" per minute, apply the load necessary to break the marker. Use protective eye glasses or shield when breaking the marker.
4. Record the strength by compressive loading in pounds.

Minimum load specification should be 4,000 pounds. Failure of the marker shall also consist of significant deformation of the marker at a load less than 3000 pounds or (2) significant delamination of the shell and the filler material regardless of the load required to break the marker.

Note: Significant deformation or delamination shall -normally consist of more than 1/8 inch.