

**PRODUCT SPECIFICATION****Brite-Line Durable 1000  
Pavement Marking Tapes**

Durable 1000 marking tape is an easy to install, highly durable, conformable, retroreflective delineator. Series 1000 is available in white and yellow, in a variety of widths, as well as words and symbols, and is intended primarily for construction zones that may be opened to traffic immediately after application.

**Composition**

Durable 1000 consists of a highly reflective layer of select glass spheres bonded to the specially formulated blend of polymer resins, pigments, and filters, evenly dispersed with glass spheres and an integrated reinforcing system. The bottom side of Durable 1000 is coated with a unique pressure sensitive adhesive designed to adhere to properly bituminous and portland cement surfaces without the use of heat, solvents, or other extra measures.

**Application**

Proper surface preparation is essential for satisfactory Durable 1000 results. Essentially, the surface must be clean and dry, with a surface temperature of 50°F, and rising. Durable 1000 cannot be successfully applied over loose or caked dirt, gravel, oily residues, road salt residues, or other foreign substances which will interfere with proper bonding. Manufacturer's application instructions, with more detailed information, are included in each carton.

**Color**

Durable 1000 pavement marking tapes are available from inventory stock in white and yellow conforming to standard highway marking colors. The pigments are thoroughly blended to produce long lasting colors resistant to the effects of weather exposure. Other colors are available on a custom basis.

**Reflectance**

Exhibit 1 illustrates Durable 1000 pavement marking tapes excellent reflective properties both initially and over the life of the product. When measured using ASTM Test Method D4061, Durable 1000 tapes exhibit the following minimum initial values expressed as specific luminance in millicandelas per square meter per lux (MCD/M<sup>2</sup>/Lux). The entrance angle should be 86°.

**Exhibit 1**

	White		Yellow	
	0.2°	0.5°	0.2°	0.5°
Observation Angle	0.2°	0.5°	0.2°	0.5°
Specific Luminance (MCD/M <sup>2</sup> /Lux)	550	380	410	250

**Reflectance Retention**

To have a long, effective service life, the surface layer of glass beads must be strongly bonded and not easily removed by traffic wear. To assure excellent long lasting reflectance, Durable 1000 has a specially formulated, abrasion-resistant, top coating designed to securely hold the surface layer of glass beads. The following two tests demonstrate the effectiveness of this coating.

Use a microscope to observe a sample of Durable 1000 after 200 cycles on a Tabor Abraser equipped with an H-18 wheel under a 125 gram load. No more than 15 percent of the beads shall be lost due to "popout". The predominant mode of failure shall be "wear down" of the beads.

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A simple and reliable glass bead retention test can be easily performed. Wrap a 3 inch by 3 inch sample of Durable 1000 tape around a one-half inch mandrel. When applied to the point of maximum bend, masking tape shall not remove beads from surface. In addition, beads shall not be readily removed from the surface by scratching the tape at the point of maximum bend with a thumb nail.

**Skid Resistance**

The surface of Durable 1000 Durable provides excellent skid resistance. When tested according to the procedures specified in ASTM-E-303, Durable 1000 exhibits an initial minimum skid resistance value of 45 BPN.

**Patchability**

Durable 1000 pavement marking tape is designed for use in patching worn areas of Durable 1000 installations. The tape will readily adhere to previously applied material.

**Performance Life**

The performance life of Durable 1000 plastic marking materials will vary greatly depending upon traffic conditions, snow removal practices, pavement surfaces, and application techniques. It is recommended that each customer evaluate Durable 1000 pavement marking tape under the various conditions of specific locations. Experience has shown that when properly applied, these materials are highly effective traffic control devices. However, Brite-Line makes no generalized performance claims.

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