CAMCODE®
Durable Bar Code Solutions

www.camcode.com

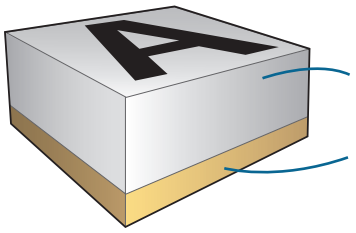
Product: Retro-Reflective Long-Range Bar Code Label Systems

Product Features

- Cost Effective: Lower system cost and easy installation saves on material and labor costs
- Saves Time: Quicker attachment methods and varied installation options keep projects on deadline.
- Easy to Scan: Camcode's warehouse barcode system maintains the proper angle for optimum scanning and can be read at distances of up to 30 feet.

Need the Ability to Scan from a Distance?

Description



Camcode's **Retro-Reflective Long-Range** Bar Code label is designed to reach scanning distances up to 30 feet with long-range scanners. Various mounting methods provide the ultimate in functionality. This label is constructed of a 4.5 mil white reflective polyester coated film, and a 1.0 mil permanent pressure-sensitive adhesive. Mounting options include direct adhesion, two-sided, fixed mount, hanging, and pipe mount. Expected exterior life is two years.

Product Specifications

Material	4.5 mil white reflective polyester film and coating.
Adhesive	1.0 mil permanent pressure-sensitive adhesive.
Attachment	Direct adhesion, two-sided, fixed mount, hanging, and pipe mount.
Label Copy	Several font types are available as well as logos or other design elements.
Symbologies	All common symbologies available including code 3 of 9, I2 of 5, 128 and Data matrix.
Colors	Black graphics on white background; color options available.
Standard Sizes	Several standard and custom sizes available.
Packaging	Shipped in sequential order, in boxed rolls or in boxes depending on mounting method. 100% no missing numbers.
Shipment	10 working days from receipt of order and approval of artwork. Expedited shipment is available for an additional charge.

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Retro-Reflective Long-Range Bar Code Labels

Durability Characteristics

*** Data Applies to Direct Adhesion Method**

Product Data	Value	Test Method
Physical Properties		
Thickness (mils[microns])	Film: 4.5 (114) +/- 15% Adhesive: 0.9-1.0 (23-25) +/- 0.1 (3) Liner: 3.1 (79) +/- 10%	ASTM D 3652
Dimensional Stability (%)	0.50% MD 0.50% TD	On A1 panel at 160°F (71°C) for 24 hr.
Reflective Intensity (cd/lux/sq.m.)		Standard Illuminant A (2850°K)
Divergence Angle *(Observation Angle)* / Incidence Angle *(Entrance Angle)*		
0.2° / -4°	52.2	
0.2° / 30°	40.1	
0.2° / 40°	31.4	
Adhesive Properties		
Adhesion from	Oz/in (N/m) average	ASTM D 903 (Modified for 72 hr dwell)
Stainless Steel	31(341)	
Acrylic	32 (352)	
Glass	33 (363)	
Polypropylene	15 (165)	
Expected Shear	20 hours	ASTM D 3654 Method A a. 1 hour dwell b. 1 square inch surface c. 4 pound load
Tack	390 gm/sq. cm.	ASTM D 2979
Expected Exterior Life	Two Years	
Service Temperature Range	-40°F to 176°F (-40°C to 80°C)	
Minimum Application Temperature	50°F (10°C) on most surfaces	
Storage Stability	Two years when stored at 70°F (21°C) and 50% RH.	

Note: Users must test products in the specific environment anticipated.
Camcode does not warrant performance of its materials in any environment.

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