

SOLAR ROAD MARKER LIGHT

BT-1

E
L
E
C
T
R
O
N
I
C

S
A
F
E
T
Y

S
I
G
N
A
G
E



Technical Specifications:

Manufactured in:	Polycarbonate
Total weight:	0.30 lb
Specific gravity (density) (ASTM D 792):	1200 kg/m ³
Water absorption, 24 hrs at 73.4 °F (ASTM D 570):	0.15%
Vicat softening temperature (11 lb load) (ASTM D 1525):	293-302 °F
Rockwell hardness (ASTM D 785):	70-80 M scale
Tensile strength (ASTM D 638):	60-65 MPa
Elongation at break (ASTM D 638):	80-100%
Flexural modulus (ASTM D 790):	2300 MPa
Impact strength, IZOD (ISO 180):	60-80 kJ/m ²
Dielectric strength (ASTM D 149):	20 kV/mm
Compressive strength (maximum load):	350 MPa
Miniature solar panel:	Silicon
Solar panel dimensions:	L: 30 mm × H: 40 mm × W: 0.2 mm
LED color:	High-intensity red
Approximate service life:	100,000 h
LED luminous intensity:	> 6500 mcd
Extended-life rechargeable batteries:	Ni-MH
Battery capacity (no memory effect):	650 mAh
Flashing sequence:	1 flash per second (60 flashes per minute)
Lens color:	Amber
Overall dimensions:	Diameter: 3.9 in, Height: 0.78 in
LED visibility distance:	164 yd
Circuit efficiency:	36 hours operating time with 7 hours of charge Direct solar exposure 60 flashes per minute
Flashing light sequence	

FEATURES:

- High resistance to friction, abrasion, impact, and heavy blows
- Lightweight body with smooth surface and no sharp edges
- Dual functionality as a speed reducer for two-way roads and channelizing applications
- Self-recharging system with automatic nighttime activation after daytime sunlight exposure
- Ergonomic grooves for easy handling and installation
- Solar technology design with high-efficiency flashing LED, service life exceeding 10 years
- High visibility under adverse weather conditions

