

Product Guidance

GLODIAN™ FLEX is Reflective Sign Media made with microprismatic retroreflective function. The biggest advantage is that digital printing is available directly onto it which can provide reflective performance during the day or in the dark at night. It can be used as Front-lit or Back-lit for billboards, fence AD, poster, banner, etc.

1. Retro reflective Performance

The retroreflective performance is measured in accordance with the procedure defined in CIE 54:1982. Measured values are averages taken from 0° orientation. The 90° orientation is to be taken as downweb of REFLOMAX supplied rolls. The values are stated as coefficients of Retroreflection, R_A and the unit is $cd/lux/m^2$.

Item	Obs. Angles	Ent. Angle	Typical R_A
GLODIAN FLEX	0.2°	5°	100

2. Size and Packing

Roll Size : 122cmX30m
 Packing : One roll per one carton
 Standard Box Size : 1,295 x 230 x 240mm
 SQ.M per Roll : 36.6 m²

3. Physical properties

Base Fabric: Polyester
 Yarn (Denier): 500
 Threads (fd/inch): 9X9 Z
 Tensile strength (lbf/in) : 108.9 / 119.7
 Elongation (%) : 19.6 / 14.1
 Tear strength (lbf) : 9.7 / 18.5
 Adhesion strength (lbs/in) : 6

4. Heavy Metal Contents & RoHS

Element	BS EN71 Part 3		Test Results (mg/kg,ppm)
	Any Toy	Material Modeling Clay	
Antimony(Sb)	65	60	<0.1
Arsenic(As)	25	25	<0.1
Barium(Ba)	1000	250	<5.0
Cadmium(Cd)	75	50	<0.1
Chromium(Cr)	60	25	<0.1
Lead(Pb)	90	90	<0.1
Mercury(Hg)	60	25	<0.1
Selenium(Se)	500	500	<0.1

Note) The sample was extracted by use of 0.07N HCl for 2 Hours at 37°C

RoHS	Test Result (mg/kg, ppm)
Cadmium(Cd)	Not detected
Lead(Pb)	Not detected
Hexavalent Chromium(Cr VI)	Not detected
Mercury(Hg)	Not detected
PBBs	Not detected
PBDEs	Not detected

5. Storage

- ① Store rolls in a cool and dry area.
- ② Store rolls or partially used rolls in their shipping carton in the original conditions with plastic holder at both edge lying down, not standing up.
- ③ Use it within 1 year from the date of receipt in case it is stored in the condition of above ①~②.

6. Caution

GLODIAN™ FLEX is soft prism type which is affected by the factors as follows in terms of reflective performance.

- ① Do not give the strong impact or continuous pressure on the reflective surface or the roll for the certain period.
- ② Do not lay down the roll on the floor without the plastic holder at both edge.
- ③ Do not scratch on the surface of microprism(back of the reflective side) with something sharp such as fingernail.
- ④ Do not put water, dust, or other contaminant on the surface of microprism (back of the reflective side).
- ⑤ Do not fold or crumple it.
- ⑥ Do not exposure it at 60°C or more than this temperature for certain period.

7. Note

Technical data can be changed with product improvement. The above data are the average of test results at the normal test condition. While the use of reflective material does greatly enhance visibility, no reflective material can assure absolute visibility, particularly in adverse weather conditions. Performance will vary depending upon actual use, exposure conditions and maintenance. Users should test reflective material to satisfy conformance to their own requirement. Reflective performance of the softprism material could be decreased as time goes by.