

PRODUCT DATA SHEET

Photoluminescent Tape—RGT-M



Tel: 08-284030

Fax: 08-282140

brev@reflexfolie.se

www.reflexfolie.se

www.battenburg.se

Fågelviksvägen 18

145 53 NORSBORG

I Description :

Self-adhesive flexible tape with "High Intensity" luminous properties. Complies with PSPA requirements for safety signs when tested to DIN 67510 Part 1. Highly visible to the human eye in the dark after exposure to natural or artificial light. Gradual diminution of glow intensity over several hours. Can be re-charged by light any number of times. Retains luminous powers over indefinite period. Non-toxic, non-radioactive, lead and phosphorous free. No harm to health or the environment. Used for safety escape signs, panels, tapes, stickers, labels and coverings.

II Adhesive :

Specially developed and tested pigmented high performance acrylic adhesive which exhibits excellent weathering properties..

III Uses :

Emergency Evacuation, General Safety and Caution Warning. Ideal for signs and escape routes, and for marking exits, stairways, corridors, hallways, directions, firefighting and emergency life-saving equipment, controls and hazards.

IV Application :

Application on most clean, dry, smooth non-porous surfaces.

V Color :

Darkness : Yellow-green

Daylight : Greenish yellow

VI Printing :

Silk-screen and offset. Printer should determine ink adherence requirements.

VII Handling and Cleaning:

Cutting can be done with conventional cutting equipment. Unglued vinyl can be HF welded, deep drawn or laminated. Neutral and non-abrasive cleaners

VIII Peel Strength : (180 degrees peel at peel rate of 150 mm/minute)

Adhesive coated PVC/aluminum	initial 24N/25mm (i.e. 0.96 kg/cm) after 24 hrs 27N/25mm (i.e. 1.08kg/cm)
Adhesive coated PVC/painted metal	initial 5N/25mm (i.e. 0.20 kg/cm) after 24 hrs 19N/25mm (i.e. 0.76kg/cm)

IX Tensile strength :

(Tensometer jaw separation rate = 150mm/minute)

Force @ 20% extension	46.5N/25mm (i.e. 1.87 kg/cm)
Force @ break	96.0N/25mm (i.e. 3.85 kg/cm)
Extension @ break	150%

X Luminosity :

Easily exceeds PSPA Class C readings of

10 minutes : 175mcd/m²

30 minutes : 50 mcd/m²

60 minutes : 23 mcd/m²

Time to decay to 0.3 mcd/m² : 2100 minutes

When tested to DIN 67510 - charged at 1000 lux for 5 minutes.

XI Physical properties :

Thickness	0.38mm without back self-adhesive
Thickness	0.48mm with back self-adhesive
Weight	0.65kilos per square meter
Width (biggest)	1000mm
Length (longest)	200m

XII Environmental properties :

Service temperature	-30degrees C to +70 degrees C
Application temperature	-20 degrees C to +50 degrees C
Fungus resistance	Resistant to fungi
Solvent resistance	Resists gasoline, grease, mild alkali and acids.
Flammability	Self-extinguishing
Shrinkage :	Same as for normal self-adhesive vinyl products.
Product life :	Indoors-same as for normal self-adhesive vinyl products; Outdoors-weather resistant
Shelf life :	Under normal conditions for self-adhesive vinyl products, approx. 1-2 years.

Measuring Protocol no.: 1

Product designation: RGT-M
Article/Sample No.: 1
Type of material:

Type of lighting source:
Illuminance on sample: E = 1000 lx
Temperature: 22
Filename: TB091107.101
Period of conditioning:
Size of measuring field:
Measurement performance:
Date: 2009 11 7
Starttime: 09:10

Measurement according to DIN 67 510 Part 1

Luminance after 2 minutes: 1150 mcd/m
Luminance after 10 minutes: 229.6 mcd/m
Luminance after 30 minutes: 65 mcd/m
Luminance after 60 minutes: 27 mcd/m
Luminance after 120 minutes: 11.5 mcd/m evaluated from readings >= 15 minutes
Luminance after 2274 minutes: .3 mcd/m evaluated from readings >= 15 Minutes (Decay time)

Afterglowing characteristics: 1150 / 229.6 / 27 - 2274

min	mcd / m min	mcd / m min	mcd / m min	mcd / m min	mcd / m min	mcd / m 0	8550	1	2063	2	1150
6	396.2	7	336.9	8	292.2	9	257.5	10	229.6	11	206.9
12	187.9	13	171.9	14	158.3	15	146.5	16	136.3	17	127.3
18	119.2	19	112.1	20	105.7	21	99.9	22	94.6	23	89.7
24	85.3	25	81.2	26	77.5	27	74	28	70.8	29	67.82
30	65.02	31	62.43	32	60	33	57.72	34	55.59	35	53.59
36	51.69	37	49.92	38	48.24	39	46.65	40	45.16	41	43.74
42	42.4	43	41.13	44	39.92	45	38.77	46	37.69	47	36.64
48	35.65	49	34.71	50	33.8	51	32.95	52	32.13	53	31.36
54	30.63	55	29.94	56	29.28	57	28.66	58	28.07	59	27.51
60	26.97										

