

GREEN EMITTING SIGNAGE MATERIAL WITH SELF-ADHESIVE BACKING

COMPOSITION

High performance aerospace grade photoluminescent sheet comprising:



Protective Top Coat	High transparency smooth PVC top coating, providing good printability, contains UV absorber. (Required artwork printed on this layer)
Photoluminescent Layers	Multi-layer high concentration, high performance photoluminescent pigment PVC sheet.
Substrate	White PVC support material
Self-Adhesive backing	High performance Acrylic self-adhesive backing film with polycoated Kraft release liner

Note: Can be directly printed with text or images for the final signage part using solvent based or UV cured printing inks to ensure optimum adhesion to the pigment layers. Part: 23, 25, 27 & 29 compliant signage material.

Range of custom finishes available for non-safety critical signage, enquire for details.

Characteristics

Emission	Green glowing 520 ±5 nm
Thickness	0.8mm typical with adhesive
Weight	950g/m ² typical
Storage temperature	-55°C to +80°C
PL material shelf life	Unlimited
Adhesive shelf life	6 months - Shelf life can be extended with application of new adhesive layer.
Service Life	Unlimited - Replacement "on condition".

Performance

Luminosity	CS25.812 (b) (1) (ii) Large Aircraft: >1273mcd/m ² (400 microlamberts) initial performance dependant on light level and charge duration.
Operational Limits (min/max)	-20°C to +55°C
Short Time Operating Temp.	-40°C to +70°C
Survival Temp.	-55°C to +85°C
Altitude	25,000ft
Decompression/ Overpressure	35,000ft to -15,000ft
Waterproofness	DO-160 Rev G Cat. W
Fluids Susceptibility	DO-160 Rev G Cat. F (1) (Cleaning solution, insecticides, beverages)
Crash/ Shock / Vibration	DO-160 Rev G Cat. B, U2
Humidity	DO-160 Rev G Cat. A and B
Flammability	Conforms to FAR/CS 25.853 (a) Appendix F part 1, 15s horizontal burn.
Toxicity	REACH compliant Non-toxic
Radioactivity	Non-radioactive
Adhesion	ASTM D-33330 32N / 25mm

Maintenance

Inspect the unit structurally for security and condition: Visually inspect the text for evidence of wear or abrasion. If significant degradation is found, replace the part. Clean with a soft cloth, using water with a mild detergent. Aggressive cleaning solvents may cause degradation.



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