

Technical Data Sheet



Photoluminescent 'Glow' Sheeting (52000 Series)

Issue Date: 6/1/2016 Version 1.3

DESCRIPTION

Photoluminescent 'Glow-In-The-Dark' sheeting is a safety grade flexible photoluminescent polyester film coated with a permanent pressure-sensitive acrylic adhesive that has been designed to exceed requirements for emergency egress and other safety standards. When it is completely charged it will glow for approximately six hours while diminishing in brightness/luminous over that period of time. There must be minimum of 5 foot candle (54 lux) of LED, fluorescent, mercury vapor or metal halide light source on material surface to maintain proper charge.

APPLICATION

Photoluminescent 'Glow' sheeting is designed for indoor safety applications such as safety signage and egress markings in building, marine, rail, and military applications.

PROPERTIES

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	PSTC - 133 - Substrate - Pressure Sensitive adhesive - Release Liner	0.009 inch (0.229 mm) 0.002 inch (0.051 mm) 0.005 inch (0.127 mm)
Peel Adhesion to: - Stainless Steel - Powder coated surfaces * - Polyethylene	PSTC - 101 15 minute dwell 24 hour dwell 15 minute dwell 24 hour dwell 15 minute dwell 24 hour dwell	 40 oz/in (44 N/100 mm) 60 oz/in (66 N/100 mm) 20 oz/in (22 N/100 mm) 40 oz/in (44 N/100mm) 10 oz/in (11 N/100 mm) 10 oz/in (11 N/100 mm)
Shear Adhesion to: - Stainless Steel	PSTC - 107 1/2" x 1/2" x 1000g	 10 hours
Tack	PSTC - 6 Rolling Ball Tack	< 5 inches

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* Color and lot variances of coated surfaces including paints, powder coatings, lacquers, stains, and other treatments may vary the performance of the tape and should be evaluated for the compatibility of the tape to the specific surface.

PROPERTIES

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Luminous Values	DIN 67510 / ASTM 2072 (Xe lamp 1000Lx / 5 min) 10 min (Xe lamp 1000Lx / 5 min) 60 min	56 mcd/m2 7 mcd/m2 500 min to 0.3 mcd/m2
Luminous Compliance	DIN 67510, ASTM 2072, ISO 15370, EU Marine Equipment Directive, IMO RES A. 752 (18), PSPA class B	
Service Temperature High	14 days at 220°F	Not Recommended 125°F max. service
Low	14 days at -20°F	No visible effects
CHEMICAL PROPERTIES	REAGENT	RECOMMENDATION
<u>Solvent Resistance</u> (Product laminated to stainless steel panel and allowed to condition for 24 hours at room temperature before testing. Sample was covered with reagent to the point that edges of product are also exposed to the reagent. The product is exposed to reagent for one hour at room temperature, then reagent is removed and product is immediately tested for scrape resistances, delaminating, and other visual effects.)	Water 10% Salt Water Bleach Trichloroethylene 25% Sulfuric Acid 1% Sodium Hydroxide Unleaded Gasoline Diesel Fuel Hydraulic Fluid 50% Antifreeze in water MEK Mineral Spirits 99% IPA	Recommended Recommended Recommended Recommended Recommended Intermittent Contact Only Recommended Recommended Recommended Intermittent Contact Only Recommended Recommended

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Note: While the data contained herein is believed to be reliable averages of the product's properties, the data should not be used for specification purposes. Test Data and results contained in this document are for general guidance only and should not be used by customers to establish designs and specifications. Customers who desire specific performance data should contact INCOM Manufacturing Group for further recommendations.

WARRANTY

The determination of the suitability of this product for any specific use is solely the responsibility of the user. No representations, guarantees or warranties of any kind are made to the accuracy or suitability of information in this document to any specific applications. INCOM warrants its products to be free from defects but limits its obligation to replacement of products that have been proven, to INCOM's satisfaction, to be defective. This warranty is non-transferable and only applies to customers buying directly from INCOM. INCOM is not liable for any loss, damage, expenses, or consequential damages arising in connection with the use of this product.