

PRODUCT DATA SHEET

Avery Dennison® Glow-in-the-dark Film

Issued: 10/2022

Introduction

Avery Dennison® Glow-in-the-dark Film is a specialty photoluminescent non-coated rigid polyester film that can be used for exit and directional signage, identification of fire alarms, fire extinguishers and evacuation routes. This product performs in accordance with ASTM 2030-99: Recommended uses of photoluminescent Safety Markings.

Conversion

Avery Dennison® Glow-in-the-dark Film offer excellent weeding and cutting performance on a wide range of computer sign making equipment in all popular sizes. Avery Dennison® Glow-in-the-dark Film is not recommended to be thermal transfer printed, screen printed and digital printed.

Recommendations

Avery Dennison® Glow-in-the-dark Film can generally be used for lettering and emergency identification on flat surfaces.

- » Direction signage
- » Emergency identifications

Features

- » Outstanding indoor durability
- » Excellent performance on flat substrates
- » High gloss for superior appearance
- » Excellent layflatness and stability during cutting and weeding
- » Excellent dimensional stability during use and application



Face Film

150 micron specialty polyester film



Adhesive

clear permanent, acrylic based



Backing

one side coated white kraft paper, 125 g/m²



Durability

5 years INDOOR USE ONLY



Shelf Life

1 year

Physical Characteristics

Features	Test method ¹	Results
Caliper, facefilm (micron)	ISO 534	150
Caliper, facefilm + adhesive (micron)	ISO 534	200
Gloss (GU)	ISO 2813, 20°	100
Dimensional stability (mm max.)	FINAT FTM 14	0.05
Shelf life (years)	Stored at 22° C/50-55 % RH	1
Durability ² (years)	Vertical exposure	INDOOR USE ONLY 5 years

Adhesive

Adhesion, initial (N/m)	FINAT FTM-1, stainless steel	700
Adhesion, after 24 hours (N/m)	FINAT FTM-1, stainless steel	800

Temperature range

Application temperature (Minimum: °C)	Minimum: +10° C
Service temperature (°C to +°C)	-40° to + 110°C

Chemical properties³

Humidity resistance	200 hours exposure	No effect
Water resistance	48 hours immersion	No effect

Illuminescent Characteristics

Charge time of 5 minutes @ 1000 Lux will charge the sign for +10 hours of glow time. Consistent glow life and unlimited rechargeability throughout service life.

Illumination: 21.6 Lux (2 foot candles) for 2 hours with a 4100K cool white fluorescent lamp

Luminance time (after illumination):

10 minutes > 25 mcd/square meter

60 minutes > 5 mcd/square meter

90 minutes > 3 mcd/square meter

Important

Information on physical and chemical characteristics and values in this document are based upon tests we believe to be reliable and do not constitute a warranty. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material to their specific use.

All technical data are subject to change. In case of any ambiguities or differences between the English and foreign versions of this document, the English version shall be prevailing and leading.

1) Test methods: More information about our test methods can be found on our website.

2) Durability: The durability is based on middle European exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing south; in areas of long high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased.

3) Prolonged immersion in gasoline and similar fluids is not recommended.

Avery Dennison warrants that its Products meet its specifications. Avery Dennison gives no other express or implied guarantees or warranties with respect to the Products, including, but not limited to, any implied warranties of merchantability, fitness for any particular use and/or non infringement. All Avery Dennison products are sold with the understanding that the purchaser has independently determined the suitability of such products for its purposes. The period of warranty is one (1) year from the date of shipment unless expressly provided otherwise in the product data sheet. All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see <http://terms.europe.averydennison.com>.

Avery Dennison's aggregate liability to Purchaser, whether for negligence, breach of contract, misrepresentation or otherwise, shall in no circumstances exceed the price of the defective, non-conforming, damaged or undelivered Products which give rise to such liability as determined by net price invoices to Purchaser in respect of any occurrence or series of occurrences. In no circumstances shall Avery Dennison be liable to Purchaser for any indirect, incidental or consequential loss, damage or injury, including without limitation, loss of anticipated profits, goodwill, reputation, or losses or expenses resulting from third party claims.

© 2022 Avery Dennison Corporation. All rights reserved. Avery Dennison and all other Avery Dennison brands, this publication, its content, product names and codes are owned by Avery Dennison Corporation. All other brands and product names are trademarks of their respective owners. This publication must not be used, copied or reproduced in whole or in part for any purposes other than marketing by Avery Dennison.