

PRODUCT DATA SHEET

Avery Dennison® 4500TF Translucent Films

Issued: 05/2024

Introduction

Avery Dennison® 4500TF Translucent Films are the answer to the signmaker's self-adhesive requirement for illuminated signage. An extensive colour range and a permanent adhesive in all the popular roll sizes make these films the right choice for medium-life backlit signage.

Conversion

Avery Dennison® 4500TF Translucent Films have been especially designed for sign cutting. Avery Dennison® 4500TF Translucent Films offer excellent conversion using computerised sign cutting, hand cutting or die cutting.

Recommendations

- » Graphics for internally illuminated signs on both rigid and flexible substrates
- » Window graphics and retail signage

Features

- » Excellent colour uniformity in reflected and transmitted light
- » Excellent adhesion on a wide variety of substrates
- » Excellent colour fastness. For the black film, the light transmission is less than on other colours.
- » Excellent dimensional stability



Face Film

80 micron, translucent vinyl film



Adhesive

permanent, acrylic based



Backing

one side coated white kraft paper, 135 g/m²



Durability

Up to 7 years



Shelf Life

2 years

Physical Characteristics

	Test method ¹	Results
Product		
Caliper, facefilm (micron)	ISO 534	80
Caliper, facefilm + adhesive (micron)	ISO 534	110
Gloss (GU)	ISO 2813, 20°	15
Dimensional stability (mm max.)	FINAT FTM 14	0.3
Tensile strength (kN/m)	DIN 53455	1.8 kN/m
Shelf life (years)	Stored at 22° C/50-55 % RH	2
Durability ² (years)	Vertical exposure	
	White & Black:	7 years
	All colours	7 years
	4510 Orange/4513 Violet	5 years
	Metallics	5 years
Accelerated ageing	SAE J 1960, 1500 hours exposure	No significant colour change
Adhesive		
Adhesion, initial (N/m)	FINAT FTM-1, stainless steel	600 N/m
Adhesion, after 24 hours (N/m)	FINAT FTM-1, stainless steel	700 N/m
	FINAT FTM-1, glass	700 N/m
	FINAT FTM 1, PMMA / Polystyrene	700 N/m
Temperature range		
Application temperature (Minimum: °C)		+10
Service temperature (°C to +°C)		-50 to +100
Heat resistance	3 weeks exposure at 80o	No significant colour change

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.

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.

© 2024 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.