

# Avery® 4500 Translucent Films

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## Introduction

Avery 4500 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.

## Description

Facefilm: 80 micron, translucent vinyl film  
Adhesive: permanent, acrylic based  
Backing paper: one side coated white kraft paper, 140 g/m<sup>2</sup>

## Conversion

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

## Features

- Excellent colour uniformity in reflected and transmitted light.
- Excellent adhesion on a wide variety of substrates.
- Excellent colour fastness.
- Excellent dimensional stability.

## Recommendations for use

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

## Supreme Cover

- Avery 4500 Translucent Films applied onto Avery 4000 Flexible Substrate have for the combined product an outdoor durability guaranteed up to 6 years with exception of 4510 TF, 4513 TF colours and 4541 Gold, 4540 Silver which have a durability of 5 years.

## PRODUCT CHARACTERISTICS

## Avery 4500 Translucent Films

### Physical properties

Features	Test method <sup>1</sup>	Results
Caliper, facefilm	ISO 534	80 micron
Caliper, facefilm +adhesive	ISO 534	110 micron
Tensile strength	DIN 53455	1.8 kN/m
Gloss	ISO 2813, 20°	15 %
Dimensional stability	DIN 30646	0.3 mm. max
Adhesion, initial	FINAT FTM-1, stainless steel	600 N/m
Adhesion, ultimate	FINAT FTM-1, PMMA	700 N/m
	Glass	700 N/m
	Polystyrene	700 N/m
	Stainless steel	700 N/m
Accelerated ageing	SAE J 1960, 1500 hours exposure	No significant colour change
Shelf life	Stored at 22° C/50-55 % RH	2 years
Durability <sup>2</sup>	Vertical exposure	
White + Black		7 years
All colours		7 years
Colours 4510 / 4513		5 years
Metallics		5 years

### Temperature range

Features	Results
Application temperature	Minimum: +10° C
Service temperature	-50° to +100° C
Heat resistance	3 weeks exposure at 80° No significant colour change

#### Important

Information on physical and chemical characteristics is based upon tests we believe to be reliable. The values listed herein are typical values and are not for use in specifications. 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.

#### Warranty

Avery® branded materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied. No salesman, representative or agent is authorised to give any guarantee, warranty, or make any representation contrary to the foregoing. All Avery® branded materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

#### 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.