

# PRODUCT DATA SHEET

## Avery Dennison® 4500TF Translucent Films

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### 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.

### 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 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.

### 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.

### ICS Warranty

- Avery Dennison 4500 Translucent Films applied onto Avery Dennison 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 Dennison® 4500TF Translucent Films

### Physical properties

#### Features

Caliper, facefilm  
Caliper, facefilm +adhesive  
Tensile strength  
Gloss  
Dimensional stability  
Adhesion, initial  
Adhesion, ultimate

#### Test method<sup>1</sup>

ISO 534  
ISO 534  
DIN 53455  
ISO 2813, 20°  
DIN 30646  
FINAT FTM-1, stainless steel  
FINAT FTM-1:  
PMMA  
Glass  
Polystyrene  
Stainless steel  
SAE J 1960, 1500 hours exposure  
Stored at 22° C/50-55 % RH  
Vertical exposure:  
White + Black  
All colours  
Colours 4510 Orange / 4513 Violet  
Metallics

#### Results

80 micron  
110 micron  
1.8 kN/m  
15 %  
0.3 mm max.  
600 N/m  
  
700 N/m  
700 N/m  
700 N/m  
700 N/m  
No significant colour change  
2 years  
  
7 years  
7 years  
5 years  
5 years

Accelerated ageing  
Shelf life  
Durability<sup>2</sup>

### Temperature range

#### Features

Application temperature  
Service temperature  
Heat resistance

3 weeks exposure at 80°

#### Results

Minimum: +10° C  
-50° to +100° C  
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. In case of any ambiguities or differences between the English and foreign versions of these Conditions, the English version shall be controlling.

### Warranty

Avery Dennison® 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 Dennison® 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: [www.graphics.averydennison.eu](http://www.graphics.averydennison.eu)

### 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.