



# Series 5500 Diffuser Film

## Series 5500: Non-Perforated

### APPLICATIONS & FEATURES

- Designed for second surface applications of internally illuminated signage and displays.
- Environmentally friendly alternative to back spraying.
- Excellent long-term adhesion.
- Uniform light control.
- 7 year outdoor durability.

### PERFORMANCE & PHYSICAL DATA

PROPERTY	TEST METHODS	TYPICAL VALUE	
SURFACE FINISH	Gloss Meter 60° Reflection	25 to 40 units	
TRANSMISSION VALUES	Spectrophotometer	#30 - 30%	#70 - 60%
THICKNESS	Micrometer, Federal Bench Type	English: 0.0034 in	Metric: 0.09 mm
TENSILE STRENGTH	Tensile Tester 2-in (51mm) jaw separation; crosshead speed of 12 in/min. (5.1 mm/s)	4.5 lb/in width	0.8 kg/cm width
ELONGATION	Instron Tensile Tester as above	≥ 150 %	
SHELF LIFE	Free from excessive moisture, temperature, direct sunlight	2 years from factory shipment	
APPLICATION TEMPERATURE RANGE	On clean substrate	60°F to 90°F optimum	15°C to 32°C optimum
SERVICE TEMPERATURE RANGE	Film applied to etched aluminum panels 24 hours prior to testing	-40°F to 200°F	-40°C to 93° C
HUMIDITY RESISTANCE	Film applied to etched aluminum panels 24 hours prior to testing; 100% relative humidity at 100°F (38°C) for 500 hours	No appreciable effect	
DIMENSIONAL STABILITY	158°F (70°C), 48 hours	0.015 in	0.4 mm
PEEL ADHESION	PSTC-1, 15 min, RT 70°F (21°C)	≥ 60 oz/in	≥ 0.67 kg/cm
LINER RELEASE	TLMI 300 in/min (760 cm/min)	150 g/2 in	30 g/cm

\*Standard Terms & Conditions Apply

## DURABILITY

Seven (7) years. Durability will be affected by actual exposure conditions and sign face maintenance.

## USAGE AND APPLICATION INFORMATION

For best results on large, continuous-color signs, be sure to utilize material from identical rolls on the same sign face to assure consistent light diffusion so as not to adversely affect the color reflection and transmission across the sign face.

## NOTICE TO PURCHASER

Information is based on tests believed to be reliable, but neither accuracy nor completeness is guaranteed. Seller's and manufacturer's only obligation shall be to replace such quantity of the film proven to be defective. Neither the seller nor the manufacturer shall be liable for any injury, loss or damage, direct or indirect, arising from the use or inability to use this product.

## TERMS & CONDITIONS

The customer assumes responsibility in determining product suitability for his intended end use. Seller's and manufacturer's only obligation shall be to replace product proven to be defective. Standard terms and conditions apply.

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