

## PRODUCT INFORMATION BULLETIN

# Series 3320 Vinyl Film

### Ultra PVF Overlaminates Pressure Sensitive Film

#### PRODUCT DESCRIPTION

Series 3320 is constructed of 1-mil Tedlar® polyvinyl fluoride film with clear, permanent pressure-sensitive adhesive. Other than protecting and prolonging the life of printed images, Series 3320 is designed as an anti-graffiti overlaminate. Series 3320 is rated for outdoor durability up to 10 years.

#### AREAS OF USE

- Protective Overlaminates for most DPF and screenprint films
- Long-term signage, kiosks, POP displays
- Safety signs, nameplates, and diecut letters and numbers
- Fleet and vehicle applications (flat surfaces only), farm and construction equipment markings, automotive striping and model identification, decorations for railway car, bus, boat and recreational vehicles

#### PERFORMANCE AND PHYSICAL DATA

<u>PROPERTY</u>	<u>TEST METHODS</u>	<u>TYPICAL VALUE</u>	
<b>SURFACE FINISH</b>	Gloss Meter 60° Reflection	40-60%	
<b>THICKNESS</b> (including adhesive)	Micrometer, Federal Bench Type	0.0020 in	0.05 mm
<b>TENSILE STRENGTH</b>	Tensile Tester with 2-in (51 mm) jaw separation; crosshead speed of 12 in/min. (5.1 mm/s), web direction	12 lb/in width	2.1 kg/cm width
<b>ELONGATION</b>	Instron Tensile Tester as above	≥ 85%	
<b>SHELF LIFE</b>	Free from excessive moisture, temperature, direct sunlight	3 years from factory shipment	
<b>APPLICATION TEMPERATURE RANGE</b>	On clean, dry substrate	40°F to 100°F optimum	4.4°C to 38°C optimum
<b>SERVICE TEMPERATURE RANGE</b>	On clean, dry substrate	-40°F to 200°F	-40°C to 93° C
<b>DIMENSIONAL STABILITY</b>	158°F (70°C), 48 hours	5 mils	0.12 mm
<b>PEEL ADHESION</b>	PSTC-1, 15 min, RT 70°F (21°C)	2.0 lbs/in	0.36 kg/cm
<b>LINER RELEASE</b>	TLMI Release at 90°, 300 in/min (760 cm/min)	30 g/2 in width	12 g/cm width
<b>FIRE RESISTANCE</b>	Flammability NFPA 701-2004 Test I	Sample conforms with requirements	

Standard Terms and Conditions Apply

Effective 2003  
Revision:10/2006

**ARLON**  
printmedia

## **OPTIMUM PERFORMANCE**

Actual weathering durability depends on surface preparation, surface maintenance and exposure conditions. Successful weather resistance is characterized by the retention of legibility.

Series 3320 will resist weathering best when applied to vertical or upper outboard angles. Horizontal angles, such as hood and auto roof surfaces, will deteriorate more quickly than vertical. This is due to increased exposure to sun and moisture, as well as continued high deposition of dirt and atmospheric contaminants. Arlon does not recommend its film for horizontal or close horizontal applications.

## **HEAT & CHEMICAL CHARACTERISTICS**

<b><u>PROPERTY</u></b>	<b><u>TEST METHOD</u></b>	<b><u>TYPICAL VALUE</u></b>
HUMIDITY RESISTANCE	Film applied to etched aluminum panels 24 hours prior to testing. 100% relative humidity, 100°F (38°C) for 500 hours.	No Appreciable Effect
GASOLINE RESISTANCE	Film applied to etched aluminum panels 24 hours prior to testing. Immersed 30 minutes at 70°F (21°C), stabilized 24 hours before inspection.	No Appreciable Effect
FIRE RESISTANCE	Film tested "as-is" and after water leaching.	Passed

## **CONDITIONS OF SALE**

*The following is made in lieu of all warranties expressed or implied:*

All statements, technical information and recommendations published by Arlon, Inc. relating to DPF products are based on tests believed to be reliable and within the accuracy of the equipment used to obtain the specific values. Their accuracy or completeness is not guaranteed and Arlon, Inc. makes no warranty with regard thereto. Seller's and manufacturer's only responsibility shall be to replace any quantity of the product proved defective. Seller and manufacturer shall not be liable for injury, loss or damage, direct or consequential, arising out of use or the inability to use the product. Nor shall seller or manufacturer be liable for any costs or expenses incurred in the processing or printing on the product. Before using, user shall determine the suitability of the product for its intended use. User assumes all risk and liability of every nature in connection therewith. No statements or recommendations other than those contained in the technical information published by Arlon, Inc. shall have force or effect unless contained in an agreement manually signed by the officers of seller and manufacturer.



**NORTH AMERICA**  
2811 S. Harbor Blvd  
Santa Ana, CA 92704  
USA

Phone: (714) 540-2811 / (800) 854-0361  
Fax: (714) 540-7190 / (800) 329-2756

**EUROPE**  
Badhuisweg 11  
2587 CA Den Haag  
The Netherlands  
Phone: +31 (0) 70 354-4311  
Fax: +31 (0) 70 355-7721