



# ▶ DPF 6000RP Clear Vinyl Film

## Premium Cast Digital Print Pressure-Sensitive Vinyl Film

DPF 6000RP Clear is a 2-mil (50 micron) gloss clear cast film with clear, permanent pressure-sensitive adhesive. Designed for large format graphics, DPF 6000RP Clear is made of premium quality cast face stock with a special lay-flat liner. The special adhesive system is designed to provide easy installation. DPF 6000RP Clear is rated for outdoor durability up to 7 years (unprinted). Printed durability is dependent on the ink system used.

### APPLICATIONS & FEATURES

- Digital printing with a wide variety of direct print systems.
- Great for window applications, second surface signs, backlit signage, vehicle graphics, display graphics.
- Used in conjunction with Series 3200, Series 3210, Series 3220, or Series 3350 overlaminates.

### PERFORMANCE & PHYSICAL DATA

| PROPERTY                      | TEST METHODS   | TYPICAL VALUE                |                      |
|-------------------------------|--|------------------------------|----------------------|
| SURFACE FINISH                | Gloss Meter 60° Reflection   | 70 to 90 Gloss Units         |                      |
| THICKNESS                     | Micrometer, Federal Bench Type   | 2-mil (50 micron)            |                      |
| TENSILE STRENGTH              | Tensile Tester with 2-in (51 mm) jaw separation; crosshead speed of 12 in/min. (5.1 mm/s), web direction | ≥ 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   | 1 year from factory shipment |                      |
| APPLICATION TEMPERATURE RANGE | On clean, dry substrate (flat)   | 40°F to 100°F optimum        | 4.4°C to 38°C        |
|                               | On clean, dry substrate (corrugated with rivets and channels)  | 60°F to 100°F optimum        | 15°C to 38°C optimum |
| SERVICE TEMPERATURE RANGE     | On clean, dry substrate  | -40°F to 175°F               | -40°C to 79°C        |
| DIMENSIONAL STABILITY         | 158°F (70°C), 48 hours   | 0.015 in                     | 0.38 mm              |
| PEEL ADHESION                 | PSTC-1, 15 min, RT 70°F (21°C)   | ≥ 2.5 lbs/in                 | ≥ 0.45 kg/cm         |
| LINER RELEASE                 | TLMI Release at 90°, 300 in/min (760 cm/min)   | 30 g/2 in                    | 12 g/cm              |

\*Standard Terms & Conditions Apply

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## ADHESION/CHEMICAL CHARACTERISTICS

| ADHESION CHARACTERISTICS | ENGLISH UNITS | NOMINAL | CHEMICAL REACTION RESISTANCE                                 |               |           |
|--------------------------|---------------|---------|--|---------------|-----------|
| SUBSTRATES               | LB / IN WIDTH | KG / CM | CHEMICAL AGENTS  | EXPOSURE TIME | RESULTS   |
| ETCHED ALUMINUM          | 4.4           | 0.78    | TAP WATER  | 24 hrs        | No Effect |
| ANODIZED ALUMINUM        | 5.6           | 1.00    | ETHYLENE GLYCOL/<br>WATER (50% ETHYLENE<br>GLYCOL/50% WATER) | 24 hrs        | No Effect |
| CHROME                   | 3.1           | 0.55    | REFERENCE FUEL<br>(85% Mineral Spirits/15%<br>Xylol)         | 1 hr          | No Effect |
| ACRYLIC ENAMEL           | 4.4           | 0.78    | SAE 20 MOTOR OIL   | 24 hrs        | No Effect |
| ACRYLIC LACQUER          | 4.4           | 0.78    | JP-4 FUEL  | 10 mins       | No Effect |
| ABS                      | 5.0           | 0.89    | 10% HCL  | 10 mins       | No Effect |
|                          |               |         | 10% AMMONIUM HYDROXIDE                                       | 10 mins       | No Effect |
|                          |               |         | VM & P NAPHTHA   | 10 mins       | No Effect |
|                          |               |         | MINERAL SPIRITS  | 10 mins       | No Effect |
|                          |               |         | METHANOL<br>(Methyl Alcohol)                                 | 10 mins       | No Effect |

## OPTIMUM PERFORMANCE

Actual weathering durability depends on surface preparation, surface maintenance and exposure conditions. Successful weather resistance is characterized by the retention of legibility. DPF 6000RP Clear 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 high deposition of dirt and atmospheric contaminants. Arlon does not recommend its film for horizontal or close horizontal applications. Use heat and/or chemical when removing image from vehicle (see Installer Handbook for details).

## TERMS & CONDITIONS

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

All orders and purchases made in connection with this document are governed and limited by Arlon's Standard Terms and Conditions, which are incorporated in full by this reference and are available at <http://www.arlon.com/terms-and-conditions> or in hardcopy by request

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