

## SECTION 1: GENERAL

### 1.1. SECTION INCLUDES

Specifications for a Neutral film that has a blend of metals that create a less shiny appearance, while reducing the heat that enters the existing glass surface.

### 1.2. REFERENCES

The reference listed below help form part of this specification.

- American Society for Testing Materials (ASTM)
- The Association of International Metallizers, Coaters and Laminators (AIMCAL)
- International Standards Organization (ISO)
- General Services Administration Standard (GSA) Test Method for Glazing and Window Systems Subject to Dynamic Overpressure Loadings
- American National Standards Institute (ANSI)
- International Window Film Association (IWFA)
- National Fenestration Rating Council (NFRC)
- Consumer Product Safety Commission (CPSC)
- ISO (International Organization for Standardization)
- Underwriters Laboratory (UL)

### 1.3. RELATED SECTIONS

- Section 08400 – Entrances, Storefronts, and Curtain Walls.
- Section 08500 – Windows.
- Section 08600 – Roof Windows and Skylights.
- Section 08800 – Glazing.
- Section 08800 – Glass.
- Section 08870 – Window Films.

### 1.4. SUBMITTALS

- Submit under provisions of Section 01300.
- Manufacturer's data sheets on each product to be used, including:
  - Physical properties and independent testing agency reports showing compliance with specified tests.
  - Preparation instructions and recommendations.
  - Storage and handling requirements and recommendations.
  - Installation methods.
- Verification Samples: For each finish product specified, two samples, minimum size 6 inches square, representing actual product, color, and patterns.

### 1.5. QUALITY ASSURANCE

- Manufacturer Qualifications: Solar film will be a standard product of a manufacturer regularly engaged in the manufacture and distribution of such products in satisfactory use for a minimum of 20 years. Manufacturing facility shall have an ISO 14001-2014, ISO 9001-2014
- Installer Qualifications: Installer to furnish documentation to show they are an authorized installer of manufacturer and have preapproval for the application from the manufacturer.
- Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship:
  - Apply film to one window designated by Architect.
  - Do not proceed with remaining work until workmanship and color, is approved by Architect.

### 1.6. DELIVERY, STORAGE, AND HANDLING

- Store products indoors in manufacturer's unopened packaging until ready for installation
- Product name and designated roll id to be clearly displayed on the inside of the film core and exterior of the box

### 1.7. PROJECT CONDITIONS

- Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside the manufacturer's absolute limits.

### 1.8. WARRANTY

- Provide film manufacturer's standard warranty against failure of film, including change of color, peeling, bubbling, rippling, cracking, delamination and demetalization; include cost of material and labor for removal and reinstallation.
- Duration of warranty to be as follows:
  - Commercial project warranty - 15year
  - Residential Project warranty - Limited Lifetime

# XPEL DAYLIGHT 28 WINDOW FILM

XPEL 3-Part Specifications Sheet  
Issue date: 12/19/2024



## SECTION 2: PRODUCTS

### 2.1. MANUFACTURERS

- Basis of Design; XPEL, Inc. Architectural window films 3251 I-35, San Antonio, TX 78219, Phone (210) 678-8700, email: [www.support@xpel.com](mailto:www.support@xpel.com)
- Substitutions: Not permitted

### 2.2. FILM PERFORMANCE RESULTS

XPEL Daylight 28 solar control film will have the following properties when applied to 1/8 inch (3 mm) clear float glass with dry application (DA)

| Property                                       | Value |
|--|-------|
| Visible Light Transmittance                    | 25%   |
| Visible Light Reflectance (Exterior)           | 26%   |
| Visible Light Reflectance (Interior)           | 26%   |
| Solar Transmittance                            | 23%   |
| Solar Reflectance                              | 23%   |
| Solar Absorptance                              | 54%   |
| Ultraviolet Light Blocked (300-380 nanometers) | 99%   |
| Total Solar Energy Rejected                    | 64%   |
| Infrared Rejection (780-2500 nanometers)       | 76%   |
| Shading Coefficient                            | 0.41  |
| Solar Heat Gain Coefficient                    | 0.36  |
| U-Factor (Winter)                              | 1.04  |
| Emissivity                                     | 0.84  |
| Glare Reduction                                | 74%   |

XPEL Daylight 28 film will have the following physical and thermal properties

| PHYSICAL AND THERMAL PROPERTIES, NOMINAL                       | Value       |
|--|-------------|
| Film Thickness:  | 1.5 mil     |
| Combustion Rate  | Negligible  |
| Melting Point  | 260-265 OC  |
| Structure  | Multi-layer |
| Adhesive Type  | DA          |
| Flammability: (Flame Spread Index according to ASTM E-84)      | <25         |
| Flammability: (Smoke Development Index according to ASTM E-84) | <450        |

## SECTION 3: EXECUTION

### 3.1. EXAMINATION

- Inspect all glass surfaces for any defects before starting installation
- If surface preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.2. PREPARATION

- Clean surfaces thoroughly prior to installation
- Do not begin installation until substrates have been properly prepared
- Prepare surfaces using the methods recommended by the manufacturer for achieving the best results for the substrate under the project conditions.

### 3.3. INSTALLATION

- Install it in accordance with the manufacturer's instructions. Installation must be accomplished by a recognized professional installer of film. Completed work must meet IWFA visual acceptance standard.
- Install without ripples, drips, dirt, cuts, tears or gaps exceeding manufacturers tolerances between film and frame.
- Upon completion, the film may have a dimpled appearance from residual moisture. Under normal weather conditions the film will dry flat with no moisture dimples within a period of 30 calendar days.

### 3.4. CLEANING

- Window film is not to be cleaned for 30 days.
- Solution should be non-acidic with no spot remover added. Use water & couple of drops of baby shampoo / Joy / Palmolive, for example.
- Cleaning solution should NEVER be sprayed directly on the film itself but sprayed onto a high-quality non-abrasive material such as microfiber towel first then clean window film.
- Cleanup project removing cleaning solutions and run-off cleaning water.
- Manufacturers' care and maintenance instructions are available upon request.

### 3.5. PROTECTION

- Protect installed products until completion of project.
- General contractors will notify other contractors that film is installed and to take care not to damage the film.