constructconnect™ spec-data®

Herculite Products, Inc.

Weather-Chek™

1. Product Name

- Weather-Chek™ Architectural Shade Fabric

2. Manufacturer

Herculite Products Inc.
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3. Product Description

Basic Use

Weather-Chek is a revolutionary architectural shade textile composite that incorporates specially engineered flexible polymer technology with a high performance polyester substrate. Made in America, Weather-Chek utilizes a unique hybrid construction that delivers exceptional tear and tensile strength blended with flexibility and softness. Weather-Chek is a unique technical textile that features the textured look of a woven textile and maintains the performance attributes and benefits of a commercial grade engineered thermoplastic.

Offering outstanding performance, value and durability as well as a broad palette of dramatic color choices, Weather-Chek awning and shade fabric provides the look and dimensional stability needed to create architectural canopies that make bold statements about the facilities where they are used.

Trusted to retain its pliability and color intensity, Weather-Chek fabrics are engineered to deliver extreme strength and long-lasting dimensional stability. The Weather-Chek PVC and polyester composite fabrics contain superior outdoor vinyl pigments to ensure prolonged color retention and ultraviolet protection. Waterproof as well as mildew, dirt and stain resistant, the Weather-Chek formulation contains mildew inhibitors that will not support mildew growth.

Weather-Chek is engineered to be easy to work with and handle. The fabric has a textured matte surface and can be assembled using standard or weg-welding processes. Additionally, Weather-Chek is made with a special proprietary PVC film formulation that resists scratching and eliminates installation related damage, to give the finished awning the best possible look and most favorable impact. Weather-Chek fabrics are top coated with Herculite's Rain Kleen®, a specially formulated and proprietary top coating system that helps prolong fabric life and preserve its color intensity. Weather-Chek is flame resistant and meets the requirements of the California State Fire Marshal (CSFM).

Weather-Chek is made in America and is the ideal architectural PVC composite fabric for shade structures and canopies, poolside structures, car shelters, patio covers, walkway coverings, privacy screens, curtains and in-home decorative ceilings, awnings and drapes.

The Weather-Chek brand awning fabrics are presented in twelve designer solid colors

Composition and Materials

Weather-Chek consists of the following five layers:

1. Face layer PVC film formulation package
2. PVC-based high flex multi-functional adhesive
3. Core stabilized polyester fabric
4. PVC-based high flex multi-functional adhesive
5. Reverse layer PVC film formulation package

Features and Benefits

- SPF 50+
- Waterproof
- Made in America
- 12 vibrant colors and patterns
- Age, fade, dirt and mildew resistant
- 10 year manufacturers limited warranty
- Can be sewn or welded using heat, radio frequency, solvent, hot air or wedge welded
- Waterproof, dimensionally stable; no shrinkage, stretch, sagging, pocketing or leakage common to woven awning fabrics
- Flame retardant; CSFM Title 19, NFPA 701, ASTM E84 Class A, M2
- Rain Kleen II top coat for prolonged fabric life and enhanced cleanability

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Dimensions/Weight

- Width 62 inches/1.57 meters
- Roll Size: 50 yd.
- Weight: 18 oz./yd^2
- Break Strength: Warp direction: 240; Fill direction: 180
- Tear Strength: Warp direction: 70; Fill direction: 60
- Hydrostatic Burst: 350 PSI
- Waterproof: Yes
- Flame Retardant CSFM Title 19, NFPA 701 ASTM E84 Class A

Sizes

Rolls of up to 50 yards are 62 inches wide.

Colors

The Weather-Chek brand fabrics are presented in twelve solid colors.

- Ocean Blue WC846
- Deep Sea Blue WC812
- Driftwood WC819
- Black WC845
- Designer White WC888
- Ivory WC839
- Tan WC838
- Sand WC800
- Rust WC809
- Deep Red WC826
- Burgundy WC815
- Glade Green WC811

Weather-Chek color charts available **here.**

4. Technical Data

Applicable Standards

ASTM International

- **ASTM E 84** CLASS A Rating Standard Test Method for Surface Burning Characteristics of Building Materials

National Fire Prevention Association (NFPA)

- **NFPA No. 701**

Approvals

- California Administrative Code Title 1 Public Safety Section 1237
- California State Fire Marshall (CSFM) registered

Environmental Considerations

A building with awnings and shades may qualify for LEED® points.

Vinyl and the Environment

Vinyl is energy efficient. Vinyl takes 20 percent less energy to produce than many competing products. Vinyl uses 50 percent less energy than polyester and 670 percent less energy than PLA which is derived from corn. Vinyl is lightweight and requires less fuel and generated lower emissions to transport. Herculite's high performance textiles used in sun control applications reflect solar energy creating a shade environment that reduces cooling costs by 17–24 percent depending on geographic location.

Vinyl is inherently recyclable generating one billion-plus pounds of post-industrial recycling annually. Because of its durability and long useful life as compared to plastic bottles, vinyl generated substantially less material to be carted off to landfills and the like each year. Vinyl contributes to a smaller carbon footprint because its uses less fuel and emits less carbon dioxide, (CO^2), than alternatives for example, vinyl consumes 24 percent less oil than polyethylene, 37 percent less than polyester, 86 percent less than nylon and 204 percent less than aluminum. Vinyl also has lower CO_2 emissions: vinyl generated 30 percent less CO_2 than polyethylene, 120 percent less than polyester and 260 percent less than aluminum.

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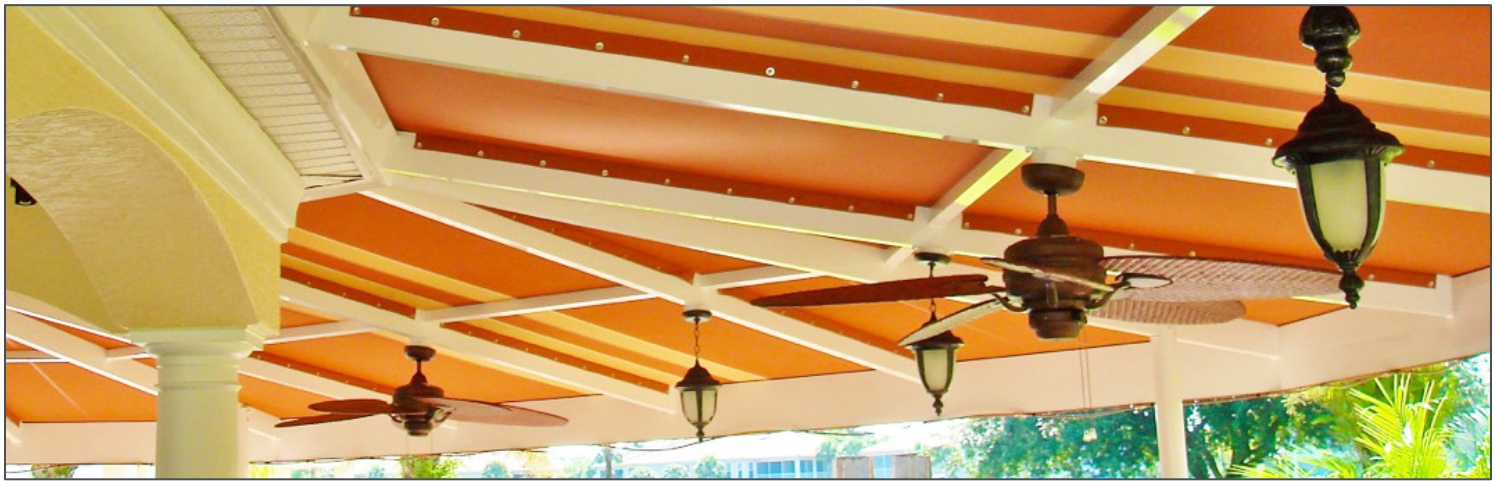

5. Installation

Some of the most common methods used for seaming Weather-Chek Architectural Awning Fabric:

Hot Air Welding

This process of vinyl welding involves the use of hot air—varying from 200 to 600 degrees C or more—to weld two layers of fabric. A nozzle is inserted into the space between the two layers and the hot air is blown inside. Once the surfaces are hot enough, the layers are pressed together using pinch rollers. The weld is created once the rollers are finished pinching the fabrics together.

Radio Frequency Welding

Also known as high frequency or dielectric welding; uses radio waves to create heat.

Solvent Welding

In this process, chemical solvents are used to create a seam. The solvent is placed along the surface of the fabrics and allowed to rest for a short period of time. The solvent's chemicals break down or soften the fabrics. Once the fabrics are soft enough, pressure is applied to create the seam.

Wedge Welding

Two pieces of fabric are passed through a wedge. The wedge is heated and as the fabrics move along, a roller is used to press them together; a seam is created.

Sewing Using Polyester or Teflon Thread

The seam is created using a sewing machine. Proper thread selection is critical especially when outdoor applications are subject to harsh weather elements. Polyester and Teflon threads offer strength and durability.

6. Availability and Cost

Availability

Weather-Chek is readily available with inventory strategically located throughout the United States.

Cost

Cost information can be obtained from the manufacturer or distributor of Weather-Chek.

7. Warranty

Weather-Chek carries a ten-year limited manufacturer's warranty. Complete warranty terms and conditions are available from Herculite Products Inc.

Weather-Chek Warranty information available **here.**

8. Maintenance

Weather-Chek Architectural Awning Fabric is a polyester reinforced PVC fabric that will provide many years of satisfactory service. Properly fastened to the frame, it will retain its dimension as well as its protective function and aesthetic value. Since no industrial textile is impervious to all hazards, periodic and proper maintenance is important if maximum life of the product is to be realized. Detailed care and cleaning instructions can be obtained from the manufacturer or distributor of Weather-Chek Awning Fabric.

Weather-Chek Care and Cleaning information available **here.**

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9. Technical Services

Detailed information, product samples and literature, test results, project lists and assistance in preparing specifications are available through Herculite Products. Inc.

For questions about specifications, code regulations, product usage or product installation, please call Herculite Products, Inc., 800-772-0036 or visit our website: www.herculite.com.

10. Filing Systems

- ConstructConnect
- Additional product information is available from the manufacturer upon request

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