



## 1. Product Name

- Natura® High Performance Awning Fabric

## 2. Manufacturer

Herculite Products Inc.  
 105 Sinking Springs Lane  
 Emigsville, PA 17318  
 Phone: 800-772-0036  
 E-mail: [czola@herculite.com](mailto:czola@herculite.com)  
 Web: [www.herculite.com](http://www.herculite.com)

## 3. Product Description

### Basic Use

Natura High Performance Awning Fabric is engineered for outdoor commercial awnings and canopies. It is suitable for sewing, welding, digital printing and fabrication by various means common in the awning fabrication industry. Natura is a unique technical textile featuring the look, feel and aesthetic features of a natural, woven cloth on both the face and reverse sides of the fabric with the performance attributes and benefits of an engineered thermoplastic.

An advancement in technical textiles, Natura's technology makes it possible for the architect/specifier to select a high performance fabric that compliments the building and its features.

Natura integrates into one product, a fabric-like technical textile with a natural fabric design element. Flame resistance, long term weathering, complete waterproof, mildew/fungal resistance, self-cleaning, dimensional stability and durability are achieved through a proprietary thermoplastic polymer formulation. This fabric can be sewn/welded and framed over appropriate awning structures.

### Composition and Materials

Natura fabric 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 the USA
- Digitally printable; vinyl-based ink receptive
- Can be sewn or welded using radio frequency, heat, solvent, hot air or wedge welding methods
- Fire resistant: CSFM Title 19, NFPA 701, ASTM E84 Class A
- Ten vibrant colors
- Eight-year warranty



### Sizes

Available 60 inches wide in 50 yard roll put ups.

### Colors

- NT7701 Harbor Green
- NT7709 Barrel Tile
- NT7711 Evergreen
- NT7712 Midnight Blue
- NT7718 Charcoal Gray
- NT7738 Burlywood
- NT7739 Antique White
- NT7745 Black
- NT7747 Navy
- NT7788 Digital White

**Color card here.**

Custom colors are available, contact Herculite Products, Inc.

## 4. Technical Data

### Applicable Standards

#### ASTM International

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

#### California State Fire Marshall (CSFM)

- **California State Fire Marshall Title 19 registered**

#### National Fire Prevention Association (NFPA)

- **National Fire Prevention Association No. 701**

### Environmental Considerations

A building with awnings and shades can 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 generates 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 in excess of one billion 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 it uses less fuel and emits less CO<sup>2</sup> 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<sup>2</sup> emissions: vinyl generated 30 percent less CO<sup>2</sup> than polyethylene, 120 percent less than polyester, and 260 percent less than aluminum.

## 5. Installation

### Seaming Methods

Natura may be seamed using these methods:

#### **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.





Printed logo and text



Printed stripes

## 6. Availability and Cost

### Availability

Natura High Performance Awning fabric is available throughout the United States through our North American distributor, Trivantage LLC.

### Cost

Cost information may be obtained from Herculite Products or our North American distributor, Trivantage LLC.

## 7. Warranty

Natura High Performance Awning Fabric carries an eight-year limited manufacturer's warranty. Complete warranty terms and conditions are available from Herculite Products Inc.

Sample warranty [here](#).

## 8. Maintenance

Herculite Natura awning fabric is a polyester-reinforced PVC fabric that will provide many years of satisfactory service. It is waterproof, flame, mildew, stain and dirt resistant. Properly fastened to the frame, it will retain its trim fit 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 information is [available here](#).

## 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 or visit our website: [www.herculite.com](http://www.herculite.com).

## 10. Filing Systems

- ConstructConnect
- Additional product information and samples are available from the manufacturer upon request ↩