

## 1. Manufacturer

Wilsonart LLC  
2501 Wilsonart Drive  
P.O. Box 6110  
Temple, Texas 76503-6110  
Phone: (254) 207-7000; (800) 433-3222  
Fax: (254) 207-2384  
Web Site: [www.wilsonart.com](http://www.wilsonart.com)

## 2. Product Description

### Recommended Uses

Wilsonart® Solid Surface is recommended for interior application use and has a wide range of vertical and horizontal applications. Common design elements are decorative wall panels, shower surrounds, countertops, vanities, retail countertops, healthcare countertops, and window sills.

### Product Composition

Wilsonart® Solid Surface is manufactured with acrylic resins, fire-retardant fillers and proprietary coloring agents that are homogeneous, with uniform color throughout their thickness.

### Patterns & Colors

Color and pattern are uniform for the entire material thickness and sheets are color matched to adjacent solid surface sheets within the same lot reference.

| Wilsonart Product Type | Colors/Patterns        |
|------------------------|------------------------|
| 051                    | 70+                    |
| 025                    | D354SL, 1573SL, 1530TM |

*\*Please contact your Wilsonart® Solid Surface distributor for additional availability of special order patterns in Product Type 025. Minimum order quantities will apply for special orders, and require eight to ten weeks for delivery.*

### Finishes

Final finish (sheen) for surfaces ranges from matte to high gloss. Surfaces with gloss and semi-gloss finishes require more maintenance than matte or satin finishes. Darker colors will require special attention.

### Standard Sheet Sizes

| Wilsonart Product Type | Thickness                                                        | Width                   | Length                   |
|------------------------|------------------------------------------------------------------|-------------------------|--------------------------|
| 051                    | 1/2 inches or 0.490 inches (1.25 cm)<br>± 0.025 inches (0.06 cm) | 30 inches<br>(76.2 cm)  | 144 inches<br>(365.8 cm) |
| 051                    | 1/2 inches or 0.490 inches (1.25 cm)<br>± 0.025 inches (0.06 cm) | 60 inches<br>(152.4 cm) | 144 inches<br>(365.8 cm) |
| 025                    | 1/4 inches 0.240 inches (0.61 cm)<br>± 0.015 inches (0.38 cm)    | 60 inches<br>(152.4 cm) | 98 inches<br>(248.92 cm) |

*NOTE: Sheets may be approximately one-quarter inch (6mm) longer and wider than above measurement.*

### Special Orders

Wilsonart® Solid Surface is available in other sizes. Minimum order quantities apply and require eight to ten weeks for delivery. Please contact your local Wilsonart Representative for complete order requirements.

### 3. Technical Data

#### 051 Solid Surface

| Properties                    | Typical Results                   | Test                  |
|-------------------------------|-----------------------------------|-----------------------|
| Tensile Strength              | 6800 psi*                         | ASTM D 638            |
| Tensile Modulus               | 1.5 x10 <sup>6</sup> psi          | ASTM D 638            |
| Tensile Elongation            | 0.4% min.                         | ASTM D 638            |
| Flexural Strength             | 10,400 psi*                       | ASTM D 790            |
| Flexural Modulus              | 1.73 x10 <sup>6</sup> psi         | ASTM D 790            |
| Thermal Expansion Coefficient | 1.37 x10 <sup>-5</sup> in./in./°F | ASTM D 696            |
| Hardness (Barcol Impressor)   | 60                                | ASTM D 2583           |
| Impact Resistance             | 144 in. drop <sup>A</sup>         | ISO 4586              |
| Izod Impact                   | 0.28 (ft-lb.)/in                  | ASTM D 256 Method A   |
| Light Resistance - Xenon      | No effect                         | ISO 4586              |
| Stain Resistance              | Pass                              | ANSI Z-124.3 modified |
| Wear and Cleanability         | Pass                              | ANSI Z-124.3          |
| Fungi Resistance              | Pass                              | ASTM G 21             |
| Bacterial Resistance          | Pass                              | ASTM G 22             |
| Boiling Water Resistance      | No effect                         | ISO 4586              |
| High Temperature Resistance   | No effect <sup>B</sup>            | ISO 4586              |
| Weatherability                | ΔE<5                              | ASTM G 155            |
| Moisture Absorption           | <0.25%                            | ASTM D 570 Long Term  |
| Specific Gravity              | 1.7 gram/cm <sup>3</sup>          | ASTM D 792            |
| Approximate Weight            | 4.4 lb./ ft <sup>2</sup>          |                       |
| Fire Behavior                 | Class 1 and Class A               | ASTM E 84             |

\* Test results vary slightly depending on pattern.

<sup>A</sup> No fracture

<sup>B</sup> High temperature resistance tests may have an effect on the surface; however, the surface can be renewed to 'No Effect'.

## 025 Solid Surface

| Properties                    | Typical Results                   | Test                  |
|-------------------------------|-----------------------------------|-----------------------|
| Thermal Expansion Coefficient | 1.50 x10 <sup>-5</sup> in./in./°F | ASTM D 696 696696696  |
| Hardness (Barcol Impressor)   | 62                                | ASTM D 2583           |
| Impact Resistance             | 78 in. drop <sup>A</sup>          | ISO 4586              |
| Izod Impact                   | 0.24 (ft-lb.)/in                  | ASTM D 256 Method A   |
| Light Resistance – Xenon      | No effect                         | ISO 4586              |
| Stain Resistance              | Pass                              | ANSI Z-124.3 modified |
| Wear and Cleanability         | Pass                              | ANSI Z-124.3          |
| Fungi Resistance              | Pass                              | ASTM G 21             |
| Bacterial Resistance          | Pass                              | ASTM G 22             |
| Boiling Water Resistance      | No effect                         | ISO 4586              |
| High Temperature Resistance   | No effect <sup>B</sup>            | ISO 4586              |
| Weatherability                | ΔE<5                              | ASTM G 155            |
| Moisture Absorption           | <0.25%                            | ASTM D 570 Long Term  |
| Specific Gravity              | 1.78 gram/cm <sup>3</sup>         | ASTM D 792            |
| Approximate Weight            | 2.2 lb./ ft <sup>2</sup>          |                       |
| Fire Behavior                 | Class II and Class B              | ASTM E 84             |

\* Test results vary slightly depending on pattern.

<sup>A</sup> No fracture

<sup>B</sup> High temperature resistance tests may have an effect on the surface; however, the surface can be renewed to 'No Effect'.

The information contained in this section is based on technical data which Wilsonart LLC believes to be reliable, and is intended for use by persons having knowledge of this technical area at their own discretion.

### Physical Properties of Solid Surface

Wilsonart® Solid Surface is highly resistant to impact fracturing and elevated temperatures. The material has very low moisture absorption, does not support fungal or bacterial growth, and is stain resistant. Refer to [Wilsonart Guide Specifications](#) for a complete list of physical properties and test results.

### Typical Flame Spread and Smoke Developed Properties

Wilsonart® Solid Surface ½-inch is Class I and Class A rated. Wilsonart® Solid Surface ¼-inch is Class II and Class B rated. Ratings are achieved using ASTM E 84 test procedures.

### Codes and Certifications

Wilsonart® Solid Surface has achieved the following:

- FDA Compliance for food contact
- New York City Material Equipment Acceptance numbers 181-96-M
- NSF 51 Food Zone and FDA food contact compliant.
- UL GREENGUARD® Gold Certified for low chemical emissions.
- LEED® 2009 potential credits can be obtained in the Commercial Interiors category for the following:
  - IEQ 4.1 Low-Emitting Materials
- Wilsonart® Hard Surface Adhesive is UL GREENGUARD Gold Certified for low chemical emissions and SCAQMD Rule 1168 compliant for VOC content. Wilsonart® Color Matched Caulk meets the SCAQMD standard.

## Branded Cleaner and Sanitizer Resistance for Wilsonart® Solid Surface

No effect was exhibited except as noted (\* or \*\*) on the following:

| <i>Cleaner or Sanitizer</i>                              | Effect<br>Removed<br>with Water | Effect<br>Removed with<br>Water and<br>Scotch-<br>Brite® | Effect<br>Removed with<br>Finishing &<br>Sanding<br>Process |
|----------------------------------------------------------|---------------------------------|----------------------------------------------------------|-------------------------------------------------------------|
| Clorox Healthcare Bleach Germicidal Cleaner**            |                                 | X                                                        |                                                             |
| Clorox Healthcare Versa Sure Cleaner Disinfectant Wipes* |                                 | X                                                        |                                                             |
| Oxivir TB**                                              |                                 |                                                          | X                                                           |
| Oxivir 1**                                               |                                 |                                                          | X                                                           |
| Virex II 256                                             | X                               |                                                          |                                                             |
| Benefect**                                               |                                 |                                                          | X                                                           |
| PDI Super Sani-Cloth Germicidal Disposable Wipes         |                                 | X                                                        |                                                             |
| PDI Sani-Prime Germicidal Spray                          |                                 |                                                          | X                                                           |
| Expose II 256*                                           |                                 | X                                                        |                                                             |
| Stride Floral Neutral Cleaner*                           | X                               |                                                          |                                                             |
| PURELL Advanced Instant Hand Sanitizer*                  |                                 | X                                                        |                                                             |

Test procedure: Listed materials were placed in contact with Wilsonart® Solid Surface under 1" (25.4mm) diameter watch cover glass for 16 hours duration prior to evaluation for effect. The branded cleaners and sanitizers listed above were cleaned with water only.

\* Causes slight change of gloss or color.

\*\* Causes slight damage, with degree of damage proportionate to length of exposure and concentration.

The effect of some reagents, cleaners, and/or sanitizers may require further refinishing efforts in order to be removed. The refinishing effort required will depend on the concentration, temperature, and length/frequency of exposure.

Finishing guidelines can be located in the Wilsonart Solid Surface Fabrication and Installation manual and are recommended to be conducted by a certified fabricator.

### 4. Installation: Fabrication and Assembly Recommendations

Refer to [Wilsonart® Solid Surface Fabrication Manual](#) and [Wilsonart Fabrication Drawings](#) for detailed information.

### 5. Warranty

### 6. Maintenance

### 7. Technical Services

For samples, literature, questions or technical assistance, please contact our toll-free Hotline at (800) 433-3222, Monday through Friday, 8 am – 5 pm, CST.

Specification Form:

|                                                                                                |                     |
|------------------------------------------------------------------------------------------------|---------------------|
| Surface shall be Wilsonart® Solid Surface, produced by Wilsonart LLC, Temple, Texas 76503-6110 |                     |
| Type:                                                                                          |                     |
| Surface                                                                                        |                     |
| Color Number: _____                                                                            | Color Name: _____   |
| Finish                                                                                         |                     |
| Number: _____                                                                                  | Name: _____         |
| Adhesive                                                                                       |                     |
| Name: _____                                                                                    | Grade/Type: _____   |
| Brand: _____                                                                                   | Wilsonart® Adhesive |

Wilsonart® Solid Surface Technical Data

Revised: September 14, 2020

© 1998-2020, Wilsonart LLC