

1. **Manufacturer**

Wilsonart
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2. **Product Description**

Wilsonart® SOLICOR™ Laminate is a High Pressure Decorative Laminate sheet available with a color-through core in a selection of patterns and finishes. The continuous color core of SOLICOR laminate provides any application with a solid one-piece effect.

Recommended Uses

Wilsonart® SOLICOR™ Laminate is suitable for interior applications such as fine quality contract furniture, fixtures, casework, and also for architectural application on interior doors, and divider systems.

- General Purpose (BTS) Basic Types 160 and 161 High Pressure Wilsonart® SOLICOR™ Laminate is designed for both horizontal and vertical applications where the surface must be functional, durable, high-quality, and resistant to scuff, scratch and stain.

Product Composition

Wilsonart® SOLICOR™ Laminate is a distinctive surfacing material composed of decorative papers impregnated with melamine resins and pressed over a white decor paper core impregnated with special thermosetting resins. These sheets are then bonded at pressures and temperatures similar to HPL. Finished sheets are trimmed, and the backs are sanded to facilitate bonding.

Basic Limitations

Wilsonart® SOLICOR™ Laminate is for interior use only and is not recommended for direct application to plaster, concrete walls, or gypsum wallboard. It is not a structural material and must be bonded to a suitable substrate.

Do not subject SOLICOR to extremes in humidity, temperatures higher than 275°F (135°C) for substantial periods of time, or intense, continuous, direct sunlight.

Patterns & Colors

Wilsonart® SOLICOR™ Laminate is available in a partial range of Wilsonart solid colors, patterns, and finishes. Please check with your Wilsonart representative or consult the pattern availability lookup on our website at www.wilsonart.com, to verify size availability by finish type.

- 160 product is decorative papers impregnated with melamine resins and pressed over a black or white core paper.
- 161 product is decorative papers impregnated with melamine resins and pressed over grey, almond or khaki colored core paper.

Finishes

- #01 High Gloss
A mirror sheen finish, which gives a smooth, brilliant appearance. #01-High Gloss finish can be used for horizontal applications such as countertops and light to medium commercial applications. #01 finish features AEON™ ENHANCED SCRATCH & SCUFF-RESISTANT PERFORMANCE TECHNOLOGY, and carries a premium upcharge. Excellent for vertical applications.
Nominal *Glossometer Reading*: 110
- #07 Textured Gloss
A fine textured finish with a sheen level indicative of a waxed wood, polished stone, or other moderately reflective materials. #07 finish features AEON™ ENHANCED SCRATCH & SCUFF-RESISTANT PERFORMANCE TECHNOLOGY, and carries a premium upcharge. Recommended for horizontal and vertical applications.
Nominal Glossometer Reading = 42
- #12 SoftGrain
A dense wood grain structure that is low gloss and soft to the touch. Subtle highlights of reflectivity randomly occur within the embossed grains, creating a sophisticated raw wood look. #12 finish features AEON™ ENHANCED SCRATCH & SCUFF-RESISTANT PERFORMANCE TECHNOLOGY, and carries a premium upcharge. Recommended for horizontal and vertical applications.
Nominal *Glossometer Reading*: 8
- #18 Linearity - Premium
A directional texture running the length of the sheet, having a narrow, random and matte-gloss linear quality. It is complementary to linear wood-grains, and linear patterns (such as the “Satin” series), and provides dimension and visual movement to solid colors. #18 finish features AEON™ ENHANCED SCRATCH & SCUFF-RESISTANT PERFORMANCE TECHNOLOGY, and carries a premium upcharge.
Nominal *Glossometer Reading*: 18
- #28 Gloss Line - Premium
A linear woodgrain texture with varied widths of narrow grain structures in an alternating mix of matte and gloss surfaces areas. #28 finish features AEON™ ENHANCED SCRATCH & SCUFF-RESISTANT PERFORMANCE TECHNOLOGY, and carries a premium upcharge. Recommended for horizontal and vertical applications.
Nominal *Glossometer Reading*: 5
- #38 Fine Velvet Texture
A smooth textured finish with moderate reflective value. Nominal *Glossometer Reading*: 14
- #60 Matte
Textured finish with a moderate reflective quality. It is recommended for horizontal and vertical application.
Nominal *Glossometer Reading*: 10
- #88 Sculpted Wood
A linear embossed woodgrain with variations of matte and gloss features, creating a sculpted dimensional effect. It is recommended for horizontal and vertical applications.
Nominal *Glossometer Reading*: 10

3. Technical Data

Nominal Sheet Width

| |
|--------|
| 48” |
| 1219mm |

Nominal Sheet Length

| |
|--------|
| 96” |
| 2438mm |

Thickness and Weight

| Type | Wilsonart Thickness | Weight Per Square Foot |
|------|--------------------------------------|------------------------|
| 160 | 0.048" ± 0.005" (1.22mm ± 0.13mm) | 0.382 lbs. |
| 161 | 0.048" ± 0.005" (1.22mm ± 0.13mm) | 0.382 lbs. |

Physical Properties for product type 160

| Property | Typical Wilsonart Type 160 | ISO 4586-8 BTS |
|---|--------------------------------------|---|
| Thickness | 0.048" ± 0.005" (1.22mm ± 0.13mm) | N/A |
| Appearance | No ABC defects | N/A |
| Cleanability (cycles) | 10 | 20 (max.) |
| Stain Resistance Reagents 1-10 Reagents 11-15 | No effect No effect | No effect Moderate effect |
| Boiling Water Resistance | No effect | Slight Effect (Gloss) No Effect (Other Finishes) |
| High Temperature Resistance | No effect | Slight Effect (Gloss) No Effect (Other Finishes) |
| Impact Resistance | >50" (1270mm) | N/A |
| Radiant Heat Resistance | 150 seconds | ≥ 150 sec. |
| Dimensional Stability Machine Direction Cross Direction | 0.5% 0.8% | 0.5% 0.9% |
| Surface Wear Resistance (cycles) | Exceeds 400 | 350 (min.) |
| Blistering | Not applicable | Not applicable |

Physical Properties for product type 161

| Property | Typical Wilsonart Type 161 | ISO 4586-8 BTS |
|---|--------------------------------------|---|
| Thickness | 0.048" ± 0.005" (1.22mm ± 0.13mm) | N/A |
| Appearance | No ABC defects | N/A |
| Cleanability (cycles) | 10 | 20 (max.) |
| Stain Resistance Reagents 1-10 Reagents 11-15 | No effect No effect | No effect Moderate effect |
| Boiling Water Resistance | No effect | Slight Effect (Gloss) No Effect (Other Finishes) |
| High Temperature Resistance | No effect | Slight Effect (Gloss) No Effect (Other Finishes) |
| Impact Resistance | >50" (1270mm) | N/A |
| Radiant Heat Resistance | 150 seconds | ≥ 150 sec. |
| Dimensional Stability Machine Direction Cross Direction | 0.5% 0.8% | 0.5% 0.9% |

| | | |
|---|----------------|----------------|
| Surface Wear Resistance (cycles) | Exceeds 400 | 350 (min.) |
| Blistering | Not applicable | Not applicable |

Typical Fire Test Data

Wilsonart® SOLICOR™ high-pressure laminates are subject to Flame Spread and Smoke Developed standards in structures where codes establish such conditions.

Test data to determine compliance with these codes are obtained by the Steiner Tunnel Test method of the American Society for Testing Materials (ASTM-E-84, Standard Test Method for Surface Burning Characteristics of Building Materials). Tests were conducted in accordance with test method and mounting procedure as described in paragraph X1.7.2 of the test method. This procedure is cataloged by Underwriters Laboratories, Inc. as UL 723.

Here is typical data for Wilsonart® SOLICOR™ laminates, averaged from two specific tests:

Typical Flame Spread and Smoke Developed Properties

| Product Type | Test Condition | Flame Spread | Smoke Developed |
|-----------------|----------------|--------------|-----------------|
| Type 160 | Unbonded | 40 | 135 |
| Type 161 | Unbonded | 40 | 60 |

Model Code Designations used to determine flame spread classification

| Flame Spread Classification (Max. Rating) | International (IBC) | Life Safety (NFPA 101) |
|---|---------------------|------------------------|
| 25 | A | A |
| 75 | B | B |
| 200 | C | C |

RE: Architectural Woodwork Quality Standard, 8th Edition, Version 1.0, - 2003

All Model Codes regulate the generation of smoke by interior finish material. In all cases they specify a maximum smoke development rating of 450.

Codes and Certifications

General Standards

Wilsonart® SOLICOR™ conforms to the voluntary standards of the American National Standards for thickness, performance properties and appearance. Wilsonart SOLICOR meets or exceeds the International Standards Organization specifications as found in ISO 4586, titled “High-Pressure Decorative Laminate (HPDL) – Sheets Based on Thermosetting Resins – Part I: specifications.”

Branded Cleaner and Sanitizer Resistance for Wilsonart® SOLICOR™ Laminate

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

1. Clorox Healthcare Bleach Germicidal Cleaner *
2. Clorox Healthcare Versa Sure Cleaner Disinfectant Wipes
3. Oxivir TB
4. Oxivir 1
5. Virex II 256
6. Benefect
7. PDI Super Sani-Cloth Germicidal Disposable Wipes
8. PDI Sani-Prime Germicidal Spray
9. Expose II 256
10. Stride Floral Neutral Cleaner *
11. PURELL Advanced Instant Hand Sanitizer *

Test procedure: Listed materials were placed in contact with Wilsonart® SOLICOR™ Laminate 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.*

12. Installation, Fabrication, and Assembly Recommendations

Fabrication should follow approved methods. Assembled pieces should meet the specifications of KCMA (Kitchen Cabinetmakers Manufacturers Association), ANSI A-161.2-1998 (revised), and "Architectural Woodwork Quality Standards, Guide Specifications and Quality Certification Program" guidelines of the Architectural Woodwork Standards where applicable.

Wilsonart® SOLICOR™ Laminate must be bonded to a substrate of reliable quality, industrial 45# density particleboard, or medium density fiberboard (MDF) are recommended. High Pressure Laminate, plaster, concrete, gypsum boards, and plywood should not be considered and are not warranted suitable substrates. Wilsonart SOLICOR Laminate may not be used as structural member.

Wilsonart® SOLICOR™ has a color through core and does not have dark edges to conceal the glue line. Recommended adhesives are Wilsonart non-pigmented PVA's or contact adhesives. Wilsonart offers a variety of non-pigmented PVA and contact adhesive options to meet the variety of bonding applications. All Wilsonart® Adhesives are available from the Wilsonart distributor. Be sure to follow adhesive manufacturer recommendations.

Utilization of a balancing sheet opposite of the Wilsonart® SOLICOR™ material is required in most applications. For best results, use of Wilsonart SOLICOR on both sides of the panel will provide a well-balanced panel. For ideal application, the same type of adhesive, the same coverage on both sides and the Wilsonart SOLICOR sanding marks assembled in the same direction will provide a quality assembly.

Preferred balancing material: Wilsonart® SOLICOR™ Laminate, Type 160 and 161

To avoid stress cracking, do not use square-cut inside corners. All inside corners shall have a minimum of 1/8" (3.175mm) radius and all edges should be routed smooth.

Drill oversized holes for screws or bolts. Screws or bolts should be slightly countersunk into the face side of a laminate-clad substrate.

Take care to ensure an appropriate acclimation between the laminate and the substrate prior to fabrication. The face and backing laminates and the substrate should be conditioned in the same environment for a minimum 48 hours, before fabrication.

Recommended conditioning temperature is about 75°F (24°C). Laminates should be conditioned at 45% to 55% relative humidity.

Types 160 and 161 are recommended for flat surfaces only. Do not use in post forming equipment or applications.

Carbide-tipped saw and router blades should be used for cutting. High tool speed and low feed rate are advisable. Cutting blades should be kept sharp. Use of a hold-down to prevent any vibration is recommended.

13. [Warranty](#)

14. [Maintenance](#)

15. 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® SOLICOR™, produced by Wilsonart, Temple, Texas 76503-6110 | |
| Types: Specify 160 or 161 | |
| Surface | |
| Color Number: _____ | Color Name: _____ |
| Finish | |
| Number: _____ | Name: _____ |
| Edge Trim | |
| Color Number: _____ | Color Name: _____ |
| Adhesive | |
| Name: _____ | Grade/Type: _____ |
| Brand: _____ | Wilsonart® Adhesive |

Wilsonart® SOLICOR™ Laminate Technical Data

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