

## 1. Manufacturer

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## 2. Product Description

### Recommended Uses

Wilsonart® Laminate with AEON™ Performance Technology, exclusively available on Wilsonart® HD® and Wilsonart® Premium Laminates, creates a surface that is dramatically more durable than competitive laminates with similar finishes – a surface that keeps its good looks longer.

Wilsonart® Laminate with AEON™ is suitable for use on fine quality countertops, residential and contract furniture, fixtures and casework, and also for architectural application on columns, wainscoting, valances, cornices, interior doors and divider systems.

Wilsonart® Laminate with AEON™ outperforms competitive laminates with similar finishes on wear resistance, as well as scratch/scuff/mar resistance.

- Wilsonart® HD® Laminates have AEON™ Technology, making them:
  - Up to 3X MORE SCUFF & SCRATCH RESISTANT\*
  - Up to 3X MORE WEAR RESISTANT\*
- Wilsonart® Premium Laminates have AEON™ Enhanced Performance Technology, making them:
  - Up to 3X MORE SCUFF & SCRATCH RESISTANT\*
  - Up to 3X MORE WEAR RESISTANT\*

\*Versus competitive laminates with similar finishes

- **General Purpose (HGS) Type 107** is most frequently used for work surfaces on counters, islands, vanities, desks and tables. Typical vertical uses include surfacing for wall panels, teller cages and the front panels of workstations, such as those in hospitals, airports and restaurants. Type 107 is produced for both horizontal and vertical interior applications where the surface must be functional, durable and decorative.
- **Vertical Surface (VGP) Type 335** is the usual choice to surface cabinet walls, doors and drawer panels. It often appears on the vertical surfaces of desks, restaurants booths and maitre d' stations, and as architectural cladding. Type 335 is intended for vertical applications where a functional, durable, decorative surface must absorb somewhat less impact than a comparable horizontal surface. VGP surfaces may be postformed to achieve radius edges.
- **Postforming (HGP) Type 350** adds the decorative capability of a soft edge to any typical laminate use. Common applications of postforming laminates are formed edges for counters, desktops, cabinet doors and drawer panels. Type 350 is intended for use on vertical and horizontal interior surfaces where it is necessary or desirable to roll the laminate on a simple radius over the edge of the substrate. This eliminates seams and leaves an attractive surface.

- **Wilsonart® HD® Type HGP 376** is used for work surfaces on counters, islands, vanities, desks and tables. Type 376 is made for both horizontal and vertical interior applications where the surface must be functional, durable and decorative. Type 376 may be postformed to eliminate seams for a more attractive edge.

(Please refer to the [Wilsonart® HD® Technical Data](#) for additional information).

### Product Composition

Decorative surface papers impregnated with melamine resins are pressed over kraft paper core sheets impregnated with phenolic resin. These sheets are then bonded at pressures greater than 1000 pounds per square inch at temperatures approaching 300°F (149°C). Finished sheets are trimmed, and the backs are sanded to facilitate bonding.

### Basic Limitations

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

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

### Patterns & Colors

AEON™ Technology is standard on all Wilsonart® HD® Patterns and on most Wilsonart® Premium patterns. Visit [www.wilsonartcontract.com/AEON™](http://www.wilsonartcontract.com/AEON™) for a complete pattern list. Please see actual sample before specifying.

### Finishes

Finish	Name	Type	Glossometer
#01	High Gloss	Premium	110
#05	Timbergrain	Premium	4.5
#07	Textured Gloss	Premium	42
#12	SoftGrain	Premium	8
#15	Fieldstone	Premium	3
#16	Casual Rustic	Premium	6
#17	Silken Wood	Premium	5
#18	Linearity	Premium	18
#19	Leno Weave	Premium	15
#22	Antique	Premium	9
#28	Gloss Line	Premium	5
#52	Quarry	Premium	55
#78	Finegrain	Premium	38
#79	Ridgewood	Premium	4.5

NOTE: Nominal Glossometer Readings are made at a 60° angle of incidence.

Finish Availability: Not all finishes are available in all patterns/colors. Some finish options have limited size availability. Please check with your Wilsonart representative or consult the pattern availability lookup on our website [www.wilsonart.com](http://www.wilsonart.com) to verify size availability by finish type.

**Standard Sheet Widths**

36"	48"	60"
914mm	1219mm	1524mm

**Standard Sheet Lengths**

96"	120"	144"
2438mm	3048mm	3658mm

NOTE: Not all sizes are available from stock; contact your Wilsonart representative for details on local availability. Minimums apply to non-standard designs and finishes, in sizes other than 48"x96" and 60"x144". Please check with your Wilsonart representative.

**Thickness and Weight**

Description	107/176	335/366	350/376
Thickness	0.045" ± 0.005" (1.14mm ± 0.13mm)	0.028" + 0.001 - 0.004" (0.71mm + 0.03 - 0.10mm)	0.036" ± 0.005" (0.91mm ± 0.13mm)
Weight per square foot	0.328#	0.186#	0.260#

**1. Technical Data****Physical Properties of General Purpose Laminates**

ISO 4586 Test	Typical Wilsonart Type 107/176	ISO 4586-3 HGS
<b>Thickness</b>	0.045" ± 0.005" (1.14mm ± 0.13mm)	N/A
<b>Appearance</b>	N/A	N/A
<b>Light Resistance</b>	≥ 4 (Slight Effect)	≥ 4 (Slight Effect)
<b>Cleanability (Rating)</b>	< 20	< 20
<b>Stain Resistance Reagents 1-10 (Rating) Reagents 11-15 (Rating)</b>	5 (No Effect) ≥ 3 (Moderate Effect)	5 (No Effect) ≥ 3 (Moderate Effect)
<b>Wet Heat Resistance (Rating)</b>	≥ 3 Moderate Effect (Gloss) ≥ 4 Slight Effect (Other Finishes)	≥ 3 Moderate Effect (Gloss) ≥ 4 Slight Effect (Other Finishes)
<b>Dry Heat Resistance (Rating)</b>	≥ 3 Moderate Effect (Gloss) ≥ 4 Slight Effect (Other Finishes)	≥ 3 Moderate Effect (Gloss) ≥ 4 Slight Effect (Other Finishes)
<b>Impact Resistance (mm)</b>	≥ 800	≥ 800
<b>Dimensional Stability (Method B) Machine Direction (%) Cross Direction (%)</b>	≤ 0.50 ≤ 0.90	≤ 0.50 ≤ 0.90
<b>Surface Wear Resistance (cycles)</b>	≥ 350	≥ 350
<b>Formability Method B (Radius mm) L<sup>a</sup> T<sup>b</sup></b>	Not applicable	Not applicable
<b>Blistering Method B (Seconds)</b>	Not applicable	Not applicable

<b>ISO 4586 Test</b>	<b>Typical Wilsonart Type 335/366</b>	<b>ISO 4586-3 VGP</b>
<b>Thickness</b>	0.028" + 0.001 - 0.004" (0.71mm + 0.03 - 0.10mm)	N/A
<b>Appearance</b>	N/A	N/A
<b>Light Resistance</b>	≥ 4 (Slight Effect)	≥ 4 (Slight Effect)
<b>Cleanability (Rating)</b>	< 20	< 20
<b>Stain Resistance Reagents 1-10 (Rating) Reagents 11-15 (Rating)</b>	5 (No Effect) ≥ 3 (Moderate Effect)	5 (No Effect) ≥ 3 (Moderate Effect)
<b>Wet Heat Resistance (Rating)</b>	≥ 3 Moderate Effect (Gloss) ≥ 4 Slight Effect (Other Finishes)	≥ 3 Moderate Effect (Gloss) ≥ 4 Slight Effect (Other Finishes)
<b>Dry Heat Resistance (Rating)</b>	≥ 3 Moderate Effect (Gloss) ≥ 4 Slight Effect (Other Finishes)	≥ 3 Moderate Effect (Gloss) ≥ 4 Slight Effect (Other Finishes)
<b>Impact Resistance (mm)</b>	≥ 600	≥ 600
<b>Dimensional Stability (Method B) Machine Direction (%) Cross Direction (%)</b>	≤ 1.10 ≤ 1.40	≤ 1.10 ≤ 1.40
<b>Surface Wear Resistance (Cycles)</b>	≥ 350	≥ 350
<b>Formability Method B (Radius mm)</b> L <sup>a</sup> T <sup>b</sup>	≤ 15 x nominal thickness (≤ 11 mm) ≤ 20 x nominal thickness (≤ 14 mm)	≤ 15 x nominal thickness ≤ 20 x nominal thickness
<b>Blistering Method B (Seconds)</b>	≥ 40	≥ 40

#### Physical Properties of Postforming Laminate

<b>ISO 4586 Test</b>	<b>Typical Wilsonart Type 350/376</b>	<b>ISO 4586-3 HGP</b>
<b>Thickness</b>	0.036" ± 0.005" (0.91mm ± 0.13mm)	N/A
<b>Appearance</b>	N/A	N/A
<b>Light Resistance</b>	≥ 4 (Slight Effect)	≥ 4 (Slight Effect)
<b>Cleanability (Rating)</b>	< 20	< 20
<b>Stain Resistance Reagents 1-10 (Rating) Reagents 11-15 (Rating)</b>	5 (No Effect) ≥ 3 (Moderate Effect)	5 (No Effect) ≥ 3 (Moderate Effect)
<b>Wet Heat Resistance (Rating)</b>	≥ 3 Moderate Effect (Gloss) ≥ 4 Slight Effect (Other Finishes)	≥ 3 Moderate Effect (Gloss) ≥ 4 Slight Effect (Other Finishes)
<b>Dry Heat Resistance (Rating)</b>	≥ 3 Moderate Effect (Gloss) ≥ 4 Slight Effect (Other Finishes)	≥ 3 Moderate Effect (Gloss) ≥ 4 Slight Effect (Other Finishes)
<b>Impact Resistance (mm)</b>	≥ 800	≥ 800
<b>Dimensional Stability (Method B) Machine Direction (%) Cross Direction (%)</b>	≤ 1.10 ≤ 1.40	≤ 1.10 ≤ 1.40
<b>Surface Wear Resistance (Cycles)</b>	≥ 350	≥ 350
<b>Formability Method B (Radius mm)</b> L <sup>a</sup> T <sup>b</sup>	≤ 15 x nominal thickness (≤ 14 mm) ≤ 20 x nominal thickness (≤ 18 mm)	≤ 15 x nominal thickness ≤ 20 x nominal thickness

<b>ISO 4586 Test</b>	<b>Typical Wilsonart Type 350/376</b>	<b>ISO 4586-3 HGP</b>
<b>Blistering Method B (Seconds)</b>	≥ 40	≥ 40

**Scuff, Scratch, and Mar – Wilsonart® HPL with AEON™ Technology (All Grades)**

<b>Wilsonart Internal</b>	<b>Typical Wilsonart® HPL with AEON™ Technology</b>	<b>Typical Wilsonart® HPL without AEON™ Technology</b>
*Scuff by ScotchBrite (7446) Gloss Change (200 passes)	< 8.0%	> 30.0%

\*Some finishes disguise scuff, scratch, and mar better than others. Applying this test to a gloss surface provides the most accurate means for assessing visual and measurable improvements.

**Typical Fire Test Data**

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® Laminates, averaged from two specific tests:

**Typical Flame Spread and Smoke Developed Properties**

<b>Product Type</b>	<b>Test Condition</b>	<b>Flame Spread</b>	<b>Smoke Developed</b>
<b>General Purpose Type 107</b>	Unbonded	50	45
<b>Vertical Surface Type 335</b>	Unbonded	45	40
<b>Postforming Type 350</b>	Unbonded	60	35
<b>General Purpose Type 107</b>	Bonded with contact adhesive to particleboard substrate; 3/8"	40	100
<b>Vertical Surface Type 335</b>	Bonded with contact adhesive to particleboard substrate; 3/8"	40	155
<b>Postforming Type 350</b>	Bonded with contact adhesive to particleboard substrate; 3/8"	50	140

When you wish to specify decorative laminate for a Class I or A fire rating, please refer to the Fire-Rated Laminate Tech Data.

**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® Laminates 107, 335, 350 and 376 conform to the voluntary standards of the American National Standards Institute, for thickness, performance properties and appearance. Wilsonart® Laminates 107,335 ,350 and 376 meet or exceed the International Standards Organization specifications as found in ISO 4586, titled "High-Pressure Decorative Laminate (HPDL) – Sheets Based on Thermosetting Resins – Part I: specifications."

### Specific Product Standards

U.S. Federal Specification L-P 508H, April 9, 1977, "Plastic Sheets, Laminated, Decorative and Non-Decorative." spells out criteria for decorative laminates for federal installations. Wilsonart 107, 335 and 350 laminates comply.

NSF International (NSF) #35, "Laminated Plastic for Surfacing for Food Service Equipment." All printed patterns offered in finishes 01, 07, 12, 15, 16, 17, 18, 19, 22, 28, 35, 52, 55, 57, 67 and 78 comply.

U.S. Federal Register, August 9, 1984, Housing and Urban Development Mobile Home Construction and Safety Standard, (24CFR) 3280.203. General Purpose Type 107 and Vertical Surface Type 335 comply.

U.S. Federal Test Method, Federal Aviation Regulation, DOT, Part 25.853, Airworthiness Standards: Transport Category Airplane (Interior Finish). Vertical Surface Type 335 and Postforming Type 350 comply with parts A and C.

U.S. Federal Motor Vehicle Safety Standard (FMVSS) 302, "Flammability of Interior Materials." Basic Types 107, 335 and 350 comply.

U.S. Military Standard MIL-P-17171E (SHIPS)/Plastic Laminate. General Purpose Type 107 complies.

Branded Cleaner and Sanitizer Resistance for Wilsonart® Laminate per ISO 4586-2 Method 31 (B) No effect was exhibited except as noted (\* or \*\*) on the following:

1. Beckart Environmental (Stabilized Chlorine Dioxide Mixed with Water at 3000ppm)
2. Benefect®
3. Claire® Germicidal Cleaner (Country Fresh Scent)
4. Claire® Disinfectant Spray Q (Country Fresh Scent)
5. Clean Republic – All Purpose Everyday Cleaner (Hypochlorous Acid – 0.003% Solution)
6. Clorox® Anywhere® Hard Surface Sanitizing Spray\*
7. Clorox® Clean-Up (Cleaner & Bleach)
8. Clorox® Disinfecting Bleach w/6% Sodium Hypochlorite (24:1/Water:Bleach)
9. Clorox® Disinfecting Spray
10. Clorox® Disinfecting Wipes
11. Clorox Healthcare® Bleach Germicidal Cleaner \*
12. Clorox Healthcare® Hydrogen Peroxide Cleaner Disinfectant
13. Clorox Healthcare® Fuzion® Cleaner Disinfectant\*
14. Clorox Healthcare® VersaSure® Cleaner Disinfectant Wipes

15. Clorox® Total 360 Disinfectant Cleaner
16. Diversey™ Expose® II 256
17. Diversey™ Oxivir 1
18. Diversey™ Oxivir Tb Wipes
19. Diversey™ Stride® Floral Neutral Cleaner
20. Diversey™ Virex® II 256
21. Fabuloso® Complete (Multi-Purpose Cleaner)
22. Lysol® Professional Disinfectant Spray
23. Microban® 24 Hour (Multi-Purpose Cleaner)
24. PDI Sani-Prime® Germicidal Spray
25. PDI Super Sani-Cloth® Germicidal Disposable Wipes
26. Purell® Advanced Hand Sanitizer Gel
27. Purell® Food Service Surface Sanitizer
28. Purell® Professional Surface Disinfectant
29. Purell® Healthcare Surface Disinfectant
30. Simple Green® Concentrated (All-Purpose Cleaner)
31. Spic and Span® Everyday (Antibacterial Cleaner)

Test procedure: Listed materials were placed in contact with Wilsonart® 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.

Branded Cleaner and Sanitizer Resistance for Wilsonart® Laminate per BIFMA HCF 8.1-2014 (Section 6 / Modified)

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

1. Beckart Environmental, Inc. (Stabilized Chlorine Dioxide Mixed with Water at 3000ppm)
2. Benefect®
3. Claire® Germicidal Cleaner (Country Fresh Scent)
4. Claire® Disinfectant Spray Q (Country Fresh Scent)
5. Clean Republic – All Purpose Everyday Cleaner (Hypochlorous Acid – 0.003% Solution)
6. Clorox® Anywhere® Hard Surface Sanitizing Spray
7. Clorox® Clean-Up (Cleaner & Bleach)
8. Clorox® Disinfecting Bleach w/6% Sodium Hypochlorite (24:1/Water:Bleach)
9. Clorox® Disinfecting Spray
10. Clorox® Disinfecting Wipes
11. Clorox Healthcare® Bleach Germicidal Cleaner
12. Clorox Healthcare® Hydrogen Peroxide Cleaner Disinfectant
13. Clorox Healthcare® Fuzion® Cleaner Disinfectant
14. Clorox Healthcare® VersaSure® Cleaner Disinfectant Wipes
15. Clorox® Total 360 Disinfectant Cleaner
16. Diversey™ Expose II 256
17. Diversey™ Oxivir 1
18. Diversey™ Stride® Floral Neutral Cleaner
19. Diversey™ Tb Wipes
20. Diversey™ Virex II 256
21. Fabuloso® Complete (Multi-Purpose Cleaner)
22. Lysol® Professional Disinfectant Spray
23. Microban® 24 Hour (Multi-Purpose Cleaner)
24. PDI Sani-Prime® Germicidal Spray
25. PDI Super Sani-Cloth® Germicidal Disposable Wipes
26. Purell® Advanced Hand Sanitizer Gel
27. Purell® Food Service Surface Sanitizer

28. Purell® Professional Surface Disinfectant
29. Purell® Healthcare Surface Disinfectant
30. Simple Green® Concentrated (All-Purpose Cleaner)
31. Spic and Span® Everyday (Antibacterial Cleaner)

Test procedure: Listed reagent materials were placed in contact with Wilsonart® Laminate surface with a one-inch square 100% cotton cloth completely saturated and covered with a 2" (50.8mm) diameter watch cover glass for 15 minute duration. The reagents listed above were removed with clean cloth and the area was then cleaned with clean cloth and distilled water only. The surface area was allowed to dry for 1-hour prior to evaluation for effect.

- \* Causes slight change of gloss or color.
- \*\* Causes slight damage, with degree of damage proportionate to length of exposure and concentration.

Resistance of Furniture to UV Lights for Wilsonart® Laminate per BIFMA HCF 8.1-201X Section 9 (Alternate Method per ASTM G155 using ISO 4586-2.33 conditions).

Wilsonart® Laminates 107,335,350 and 376 conforms to BIFMA – Healthcare Furniture Design Guidelines for Cleanability, Section 9 Resistance to Furniture to UV Lights. Wilsonart® Laminates 107, 335, 350 and 376 meet or exceed the acceptance level for surface evaluation.

### **3. 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 Institute where applicable.

Wilsonart® Laminate must be bonded to a substrate of reliable quality, such as particleboard, medium density fiberboard or plywood with one A-face. High-pressure laminate, plaster, concrete and gypsum board should not be considered suitable substrates. Basic Types laminate may not be used as structural members.

Bond with adhesives and follow the techniques recommended by the adhesive manufacturer. Recommended adhesives are permanent types, such as urea and polyvinyl acetate (PVA), and contact types. Wilsonart adhesives are recommended for most bonding conditions.

To avoid stress cracking, do not use square-cut inside corners. All inside corners should 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 48 hours before fabrication.

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

With postforming machinery, Wilsonart 335, 350 and 376 will postform at a nominal sheet temperature range of 325°F to 338°F (163°C to 170°C) in 20 ± 5 seconds.

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

### **4. Warranty**

### **5. Maintenance**

**6. 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® Laminate, produced by Wilsonart LLC, Temple, Texas 76503-6110	
Type: Specify 107, 335, 350 or 376	
Surface	
Color Number:	_____
Color Name:	_____
Finish	
Number:	_____
Name:	_____
Edge Trim	
Color Number:	_____
Color Name:	_____
Adhesive	
Name:	_____
Grade/Type:	_____
Brand:	Wilsonart® Adhesive

Wilsonart® Laminate with AEON™

Revised: January 2025

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