

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

2. Product Description

Recommended Uses

Wilsonart® Laminate, types 107, 335, and 350, is suitable for use on fine quality residential and commercial furniture, fixtures and casework, and for architectural application on columns, wainscoting, valances, cornices, interior doors and divider systems.

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 maître 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® finishes feature Antimicrobial Protection that helps inhibit the growth of stain and odor causing bacteria, mold, and mildew on your countertop or surface. Wilsonart's Antimicrobial Protection won't wash away or wear off. Premium and Standard finishes are available with Antimicrobial Protection upon request during the ordering process.

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 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 to extremes in humidity or temperatures higher than 275°F (135°C) for substantial periods of time, or intense, continuous, direct sunlight.

Patterns & Colors

Available in a full range of solid colors, stones, marbles, woodgrains, leathers and patterns. See all designs at www.wilsonart.com. Please see actual sample before specifying.

Finishes

Confirm finish availability on individual designs by going to www.wilsonart.com

#01 High Gloss - Premium

A mirror sheen finish, which gives a smooth, brilliant appearance. #01-High Gloss finish also features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Can be used for horizontal applications such as countertops and light-to-medium commercial applications. Excellent for vertical applications. *Nominal Glossometer Reading = 110*

#05 Timbergrain - Premium

An overall finish with dimensional low-sheen, realistic ticking and natural variation across the sheet, looks very much like the surface of natural wood veneer. #05 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 4.5*

#07 Textured Gloss - Premium

A textured finish which reproduces the high sheen of waxed wood furniture. #07 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 42*

#12 SoftGrain - Premium

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. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 8*

#16 Casual Rustic - Premium

A woodgrain texture with a blend of grain variations ranging from linear to subtle movement with random, irregular features. The overall low gloss surface is accented with higher sheen woodgrain ticking and random highlights. #16 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 6*

#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 woodgrains, 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. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 18*

#19 Leno Weave – Premium

Random intersecting horizontal and vertical lines create a geometric weave with a matte-gloss finish. Recommended for horizontal and vertical applications. #19 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 15*

#21 Soft Silk – Premium

A smooth, ultra-matte finish with a silky, soft touch. This minimalist finish gives the surface a genuine stone feel. Recommended for horizontal and vertical applications. #21 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 8*

#22 Antique - Premium

A mixture of varying low gloss features combined with organic movement, indicative of the surface of an aged stone or an antique metal. Antique features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 9*

#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. Gloss Line features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 5*

#35 Mirage-Wilsonart® HD®

Subtle variations in matte and gloss finish connect to nature's own finishes: rough and weathered, smooth and polished. #35 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Gloss Reading = 50*

#38 Fine Velvet Texture

A smooth textured finish with moderate reflective value. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 14*

#52 Quarry - Premium

Premium finish emulating the "pitted" look of polished natural stone. #52 features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 55*

#55 Glaze-Wilsonart® HD®

A layering of matte features over a semi-gloss glaze, creates this timeworn effect. #55 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical application. *Nominal Gloss Reading = 25*

#57 Aligned Oak – Wilsonart® HD®

Authentic realism is brought to the surfaces using synchronized texture as each elegantly aged oak design exhibits the natural dimension and feel of real world. #57 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 7*

#60 Matte - Standard

Textured finish with a moderate reflective quality. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 10*

#78 FineGrain - Premium

The FineGrain premium finish features the polish and luxe of a real wood veneer, with a subtle, narrow grain structure that runs the length of the sheet. #78 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 38*

#79 Ridgewood – Premium

An overall matte finish with ridged dimensional features creating a linear woodgrain effect. #79 finish features AEON™ Enhanced Scratch & Scuff-Resistant Performance Technology. Recommended for horizontal and vertical applications. *Nominal Glossometer Reading = 4.5*

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

Finish Availability: Not all finishes are available in all patterns and colors. Some finish options have limited size availability. 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.

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	335	350
Thickness	0.048" ± 0.005" (1.22mm ± 0.13mm)	0.028" + 0.001 - 0.004" (0.7mm + 0.03 - 0.10mm)	0.039" ± 0.005" (0.99mm ± 0.13mm)
Weight per square foot	0.322#	0.186#	0.260#

3. Technical Data

Physical Properties of General Purpose Laminates

ISO 4586 Test	Typical Wilsonart Type 107	ISO 4586-3 HGS
Thickness	0.048" ± 0.005" (1.22mm ± 0.13mm)	N/A
Appearance	N/A	N/A
Light Resistance	Slight effect	Slight Effect
Cleanability (cycles)	10	10
Stain Resistance Reagents 1-10 Reagents 11-15	No effect Slight effect	No effect Moderate effect
Boiling Water Resistance	Slight Effect (Gloss) No Effect (Other Finishes)	Slight Effect (Gloss) No Effect (Other Finishes)
High Temperature Resistance	Slight effect	Slight Effect (Gloss) No Effect (Other Finishes)
Impact Resistance	65" (1651mm)	31.5" (800mm)
Radiant Heat Resistance	210 seconds	≥ 200 sec.
Dimensional Stability Machine Direction Cross Direction	0.3% 0.7%	1.1% (max.) 1.4% (max.)
Surface Wear Resistance (cycles)	Meets or Exceeds 400	350 (min.)
Formability	Not applicable	Not applicable
Blistering	Not applicable	Not applicable

Physical Properties of Vertical Surface Laminates

ISO 4586 Test	Typical Wilsonart Type 335	ISO 4586-3 VGP
Thickness	0.028" + 0.001 - 0.004" (0.7mm + 0.03 - 0.10mm)	N/A
Appearance	N/A	N/A
Light Resistance	Slight effect	Slight effect
Cleanability (cycles)	10	20 (max.)
Stain Resistance Reagents 1-10 Reagents 11-15	No effect Slight effect	No effect Moderate effect
Boiling Water Resistance	Slight Effect (Gloss) No Effect (Other Finishes)	Slight Effect (Gloss) No Effect (Other Finishes)

High Temperature Resistance	Slight Effect (Gloss) No Effect (Other Finishes)	Slight Effect (Gloss) No Effect (Other Finishes)
Impact Resistance	40" (1016mm)	23.5" (600mm)
Radiant Heat Resistance	200 seconds	≥ 200 sec.
Dimensional Stability Machine Direction Cross Direction	0.5% 0.8%	1.1% (max.) 1.4% (max.)
Surface Wear Resistance (cycles)	Meets or Exceeds 400	350 (min.)
Formability	5/16" radius (7.93mm)	7/16" radius (11mm) 9/16" radius (14.7mm)
Blistering	45 seconds	≥ 40 seconds

*Radius for face is actually the radius of the form around which the laminate is postformed. The radius for back is actually the radius to which the decorative face is postformed.

Physical Properties of Postforming Laminate

ISO 4586 Test	Typical Wilsonart Type 350	ISO 4586-3 HGP
Thickness	0.039" ± 0.005" (0.99mm ± 0.13mm)	0.039" ± 0.005" (1mm ± 0.12mm)
Appearance	N/A	N/A
Light Resistance	Slight effect	Slight effect
Cleanability (cycles)	10	20
Stain Resistance Reagents 1-10 Reagents 11-15	No effect Slight effect	No effect Moderate effect
Boiling Water Resistance	Slight Effect (Gloss) No Effect (Other Finishes)	Slight Effect (Gloss) No Effect (Other Finishes)
High Temperature Resistance	Slight Effect (Gloss) No Effect (Other Finishes)	Slight Effect (Gloss) No Effect (Other Finishes)
Impact Resistance	55" (1397mm)	31.5" (800mm)
Radiant Heat Resistance	205 seconds	≥ 200 sec.
Dimensional Stability Machine Direction Cross Direction	0.5% 0.8%	1.1% (max.) 1.4% (max.)
Surface Wear Resistance (cycles)	Meets or Exceeds 400	350 (min.)
Formability*	*5/16" face (7.93mm) *3/8" back (9.52mm)	*9/16" face (14.27mm) *3/4" back (19.05mm)
Blistering	65 seconds	≥ 40 seconds

*Radius for face is actually the radius of the form around which the laminate is postformed. The radius for back is actually the radius to which the decorative face is postformed.

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

Product Type	Test Condition	Flame Spread	Smoke Developed
General Purpose Type 107	Unbonded	50	45
Vertical Surface Type 335	Unbonded	45	40
Postforming Type 350	Unbonded	60	35
General Purpose Type 107	Bonded with contact adhesive to particleboard substrate; 3/8"	40	100
Vertical Surface Type 335	Bonded with contact adhesive to particleboard substrate; 3/8"	40	155
Postforming Type 350	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, types 107, 335 and 350, conform to the voluntary standards of the American National Standards Institute, for thickness, performance properties and appearance. Wilsonart® Laminates 107, 335 and 350 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 solid colors and printed patterns in Basic Types 107, 335 and 350, 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.

4. 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® Laminates 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® Laminate types 335 and 350 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.

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® Laminate, produced by Wilsonart LLC, Temple, Texas 76503-6110

Type: Specify 107, 335 or 350

Surface

Color Number: _____

Color Name: _____

Finish

Number: _____

Name: _____

Edge Trim

Color Number: _____

Color Name: _____

Adhesive

Name: _____

Grade/Type: _____

Brand: Wilsonart® Adhesive

Wilsonart® Laminate Technical Data

Basic Types 107, 335, 350

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