

Wilsonart® Laminate Basic Types (#107, #335, #350)

Technical Data

Manufacturer

Wilsonart LLC
2400 Wilson Place
P.O. Box 6110
Temple, Texas 76503-6110
Phone: (254) 207-7000; (800) 433-3222
Fax: (254) 207-2384
Web Site: www.wilsonartlaminates.com

Product Description

Recommended Uses

Wilsonart® Laminate is suitable for use on fine quality residential and contract furniture, fixtures and casework, and also 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 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 radiused 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.

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

Patterns & Colors

Available in the full range of Wilsonart solid colors, stones, marbles, woodgrains, leathers and patterns. Please see actual sample before specifying.

Finishes – You can confirm finish availability on individual designs by clicking on [Pattern Availability](#)

- ❖ #01 High Gloss - Premium
A mirror sheen finish, which gives a smooth, brilliant appearance. #01-High Gloss finish also features AEON™ technology and can be used for horizontal applications such as countertops and light-to-medium commercial applications. Excellent for vertical applications and carries a premium upcharge. *Glossometer reading: MD and CD 110 ± 10.*
- ❖ #07 Textured Gloss - Premium
A textured finish which reproduces the high sheen of waxed wood furniture. Recommended for horizontal and vertical applications. #07 finish features AEON technology and carries a premium upcharge. *Glossometer reading: MD and CD 42 ± 4.*
- ❖ #12 Soft Grain - 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 technology and carries a premium upcharge. Recommended for horizontal and vertical applications. *Glossometer reading: MD and CD 6 ± 1.*
- ❖ #18 Linearity - Premium
A directional texture running the length of the sheet, having a narrow, random, 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 technology and carries a premium upcharge. *Glossometer reading: MD and CD 18 ± 4*
- ❖ #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. Recommended for horizontal and vertical applications. Antique features AEON Enhanced Performance Technology and carries a premium upcharge. *Glossometer reading: MD and CD 9 ± 3*
- ❖ #38 Fine Velvet Texture
A smooth textured finish with moderate reflective value. *Glossometer reading: MD and CD 14 ± 2*
- ❖ #52 Quarry - Premium
Premium finish emulating the “pitted” look of polished natural stone. Recommended for horizontal and vertical applications. #52 features AEON technology and carries a premium upcharge. *Glossometer reading: MD 55 ± 5.*
- ❖ #60 Matte
Textured finish with a moderate reflective quality. Recommended for horizontal and vertical applications. *Glossometer reading: MD and CD 10 ± 2.*
- ❖ #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 technology and carries a premium. *Glossometer reading: MD and CD 38 ± 3.*

NOTE: Glossometer readings are made at a 60° angle of incidence. MD refers to the machine direction of a laminate sheet, and CD refers to the cross direction.

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/design/patternavail) 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#

Technical Data

Physical Properties of General Purpose Laminates

NEMA Test	Typical Wilsonart Type 107	NEMA Standard HGS
Thickness	0.048" ± 0.005" (1.22mm ± 0.13mm)	0.048" ± 0.005" (1.2mm ± 0.13mm)
Appearance	No ABC def.	No ABC def.
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	No effect	No effect
High Temperature Resistance	Slight effect	Slight effect
Impact Resistance	65" (1651mm)	50" (1270mm)
Radiant Heat Resistance	160 seconds	125 sec. (min.)
Dimensional Stability Machine Direction Cross Direction	0.3% 0.7%	0.5% 0.9%
Surface Wear Resistance (cycles)	Meets or Exceeds 400	400 (min.)
Formability	Not applicable	Not applicable
Blistering	Not applicable	Not applicable

Physical Properties of Vertical Surface Laminates

NEMA Test	Typical Wilsonart Type 335	NEMA Standard VGS	NEMA Standard VGP
Thickness	0.028" + 0.001 - 0.004" (0.7mm + 0.03 - 0.10mm)	0.028" ± 0.004" (0.7mm ± 0.10mm)	0.028" ± 0.004" (0.7mm ± 0.10mm)
Appearance	No ABC def.	No ABC def.	No ABC def.
Light Resistance	Slight effect	Slight effect	Slight effect
Cleanability (cycles)	10	20 (max.)	20 (max.)
Stain Resistance Reagents 1-10 Reagents 11-15	No effect Slight effect	No effect Moderate effect	No effect Moderate effect
Boiling Water Resistance	No effect	No effect	Slight effect
High Temperature Resistance	Slight effect	Slight effect	Slight effect
Impact Resistance	40" (1016mm)	20" (508mm)	20" (508mm)
Radiant Heat Resistance	120 seconds	80 sec. (min.)	80 sec. (min.)
Dimensional Stability Machine Direction Cross Direction	0.5% 0.8%	0.7% (max.) 1.2% (max.)	1.1% (max.) 1.4% (max.)
Surface Wear Resistance (cycles)	Meets or Exceeds 400	400 (min.)	400 (min.)
Formability	7/16" radius (11mm)	Not applicable	1/2" radius (13mm)
Blistering	45 seconds	Not applicable	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

NEMA Test	Typical Wilsonart Type 350	NEMA Standard HGP
Thickness	0.039" ± 0.005" (0.99mm ± 0.13mm)	0.039" ± 0.005" (1mm ± 0.12mm)
Appearance	No ABC def.	No ABC def.
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	No effect	Slight effect
High Temperature Resistance	Slight effect	Slight effect
Impact Resistance	55" (1397mm)	30" (762mm) (min.)
Radiant Heat Resistance	140 seconds	100 sec. (min.)
Dimensional Stability Machine Direction Cross Direction	0.5% 0.8%	1.1% (max.) 1.4% (max.)
Surface Wear Resistance (cycles)	Meets or Exceeds 400	400 (min.)
Formability*	*9/16" face (14.28mm) *3/16" back (4.76mm)	*5/8" face (16.00mm)
Blistering	70 seconds	55 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
Product Type	Test Condition	Flame Spread	Smoke Developed
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 conform to the voluntary standards of the American National Standards Institute/National Electrical Manufacturers Association (ANSI/NEMA) LD3-2005, for thickness, performance properties and appearance. Various grades of Wilsonart laminates 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 Nondecorative." 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.

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 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.

Warranty

Wilsonart LLC warrants to the original consumer purchaser for one (1) year after date of purchase (“Warranty Period”) that, under normal use and service, Wilsonart® Laminate Sheets are free from manufacturing defects and conform to published specifications. This warranty applies only to a Wilsonart Laminate Sheet which has been installed in an interior application and a remains installed at that location (“Warranted Product”) and is extended only to, and may be enforced only by, the original consumer purchaser. THIS WARRANTY IS NOT TRANSFERABLE. This warranty is expressly conditioned upon submission of proof of date of purchase.

WHAT IS EXCLUDED:

This warranty shall not apply to damage arising from any of the following:

1. Accidents, abuse or misuse;
2. Exposure to extreme temperature;
3. Improper fabrication or installation; or
4. Improper maintenance or repair.

WHAT WILSONART WILL DO IF YOUR CLAIM IS COVERED BY THIS WARRANTY

Wilsonart will provide, at no cost and with delivery prepaid, a Wilsonart® Laminate Sheet to replace the Warranted Product. Wilsonart will not pay for removal of the Warranted Product or for fabrication or installation of the replacement laminate or any other costs. No replacement under the warranty shall extend the Warranty Period.

Any replacement is limited to colors and styles of Wilsonart® Laminate Sheets available at the time of replacement. Exact color matches may not be possible. If the original color or style is no longer available, Wilsonart has the right to substitute another Wilsonart Laminate Sheet of equal or greater value than the Warranted Product.

WHAT YOU NEED TO DO

To make a claim under this warranty, you must contact the Wilsonart Warranty Center at the address listed below before the end of the Warranty Period. You must provide proof of date of purchase, photographs of the Warranted Product and access for inspection for warranty determination by a Wilsonart representative, and thereafter Wilsonart will provide you a determination on your claim.

Wilsonart Warranty
Center
2400 Wilson Place
Temple, Texas 76504
877-537-0533... Toll Free

THE FOREGOING SHALL CONSTITUTE THE EXCLUSIVE REMEDY OF THE PURCHASER AND THE EXCLUSIVE LIABILITY OF WILSONART.

THE ABOVE WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES WHETHER ORAL OR WRITTEN. ANY IMPLIED WARRANTIES WHICH MAY ARISE BY OPERATION OF LAW, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE PERIOD OF THE WRITTEN WARRANTY SET FORTH HEREIN.

WILSONART SHALL NOT, UNDER ANY CIRCUMSTANCES OR UNDER ANY LEGAL THEORY, BE LIABLE TO THE PURCHASER OR ANY OTHER PERSON FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION DAMAGES TO, OR LOSS OF USE OF, PROPERTY, DAMAGES FOR LOSS OF PROFITS OR REVENUES OR ANY OTHER DAMAGES ARISING FROM THE PURCHASE. WILSONART'S LIABILITY WILL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE WILSONART® PRODUCT.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

No agent, dealer, employee or representative of Wilsonart nor any installer, fabricator or other person is authorized to modify the warranty in any respect.

The invalidity of all or a part of any of the provisions of the Limited Warranty shall not affect or invalidate any other provision of the Limited Warranty.

For further assistance or questions, contact Wilsonart at the address or telephone number listed above or at www.wilsonart.com.

Maintenance*

The decorative surface may be cleaned with warm water and mild soaps, such as those used for hands or dishes. Do not use cleansers that contain abrasives, acids or alkalis; they will damage the decorative surface. Remove stubborn stains with a 2-minute exposure to hypochlorite bleach such as Clorox®, followed by a clean water rinse.

We recommend that you **not** allow any of the following agents to **remain** in contact with the decorative surface:

1. Hypochlorite bleach, except as described above
2. Hydrogen peroxide solution
3. Mineral acids, hydrochloric acid such as Lime-A-Way™, sulfuric or nitric acid
4. Caustic solutions containing greater than 2% lye, such as Drano®
5. Sodium bisulfate, such as Sani-Flush®
6. Potassium permanganate
7. Berry juices
8. Silver nitrate, in 1% concentration or greater
9. Gentian violet
10. Mild silver protein, such as 20% argyrol
11. Bluing
12. Fabric dye, such as Tintex® or Rit®
13. Alcohol containing 1% iodine in solution

If you require a decorative laminate that can withstand these and other chemicals, please refer to the Tech Data for Wilsonart® Chemsurf® Chemical-Resistant Laminates.

Free copies of the "Care and Maintenance Guide," which covers all Wilsonart products, are available. The guide can be accessed at <http://www.wilsonartlaminate.com> or by calling our hotline at 800-433-3222. It can be used for your own information, for project manuals, and for provision to clients and contractors involved with interior construction and finishing.

**Not applicable for Phenolic Laminate Backing Sheet.*

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

Basic Types TD (TD2200)

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Wilsonart® Custom Laminate Technical Data

1. Manufacturer

Wilsonart LLC
2400 Wilson Place
P.O. Box 6110
Temple, Texas 76503-6110
Phone: (254) 207-7000; (800) 433-3222
Fax: (254) 207-2384
Web Site: www.wilsonartlaminates.com

2. Product Description

Recommended Uses

Custom Laminate is suitable for use on fine quality residential and contract furniture and casework and for architectural application on columns, wainscoting, valances, cornices, interior doors and divider systems.

Most applications of Custom Laminate are made with one of these basic laminate types:

- **General Purpose (HGS) 173, 174** are 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.
- **Vertical Surface (VGP) 363, 364** are intended for vertical applications where a functional, durable, decorative surface must absorb somewhat less impact than a comparable horizontal surface. They often appear on the vertical surfaces of cabinet walls, doors and drawer panels, desks, restaurant booths and maitre d' stations and as architectural cladding.
- Silk-Screen Process uses types 173 and 363.
- Graphic Image Process uses Types 174 and 364.

Product Composition

Wilsonart Custom Laminate 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 and temperatures approaching 300°F (149°C). Finished sheets are trimmed and the backs sanded to facilitate bonding.

Wilsonart Custom Laminate creates a unique sheet of laminate from two processes:

- **Silk-Screen:** A multi-colored detailed image is screen-printed onto a sheet of decorative paper, which is then formed into a laminate sheet.
- **Graphic Image:** Paintings, digital images and/or photography are printed onto special decorative paper to be used for lamination.

Basic Limitations

Wilsonart Laminate is intended for interior use only and is not recommended for application to plaster or 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, temperatures over 275° F (135°C) for sustained periods of time, or intense, continuous, direct sunlight.

Finishes

- ❖ #01 High Gloss - Premium
A mirror sheen finish, which gives a smooth, brilliant appearance. #01-High Gloss finish also features AEON™ technology and can be used for horizontal applications such as countertops and light-to-medium commercial applications. Excellent for vertical application. Carries a premium upcharge. *Glossometer reading: MD and CD 110 ± 10.*
- ❖ #07 Textured Gloss - Premium
A textured finish which reproduces the high sheen of waxed wood furniture. Recommended for horizontal and vertical application. #07 finish features AEON technology and carries a premium upcharge. *Glossometer reading: MD and CD 42 ± 4.*
- ❖ #38 Fine Velvet Texture
A smooth textured finish with moderate reflective value. *Glossometer reading: MD and CD 14*
- ❖ #60 Matte
Textured finish with a moderate reflective quality. Recommended for horizontal and vertical application. *Glossometer reading: MD and CD 10 ± 2.*
- ❖ #90 Crystal - Premium
A very finely beaded texture that minimizes smudges and finger marks and improves scratch resistance. Recommended for horizontal and vertical application. *Glossometer reading: MD and CD 13 ± 3.*

NOTE: Glossometer readings are made at a 60° angle of incidence. MD refers to the machine direction of a laminate sheet, and CD refers to the cross direction.

Wilsonart® Custom Laminate may be specified in other optional designer finishes. Contact your local representative for availability.

***Patterns & Colors**

Solid Colors	Yes
Woodgrains and Patterns	Yes

*Some limitations apply by process.

***Sheet Widths**

36"	48"
(914mm)	(1219mm)

*For wider images, contact the Custom Laminate Department.

Sheet Lengths

96"	120"	*144"
(2438mm)	(3048mm)	(3658mm)

Sheet Thicknesses

	Typical Wilsonart Thickness	NEMA Thickness	Weight PSF
General Purpose (HGS) 173, 174	0.048" ± 0.005" (1.22mm ± 0.13mm)	0.048" ± 0.005" (1.2mm ± 0.12mm)	0.322#
Vertical Surface Type (VGS) 363, 364	0.028" + 0.001" - 0.004" (0.71mm + 0.03 - 0.1mm)	0.028" ± 0.004" (0.7mm ± 0.10mm)	0.196#

3. Technical Data

NOTE: Each Typical Wilsonart Value should be compared to the NEMA Standard next to it. For physical properties of Wilsonart Laminate Types 107 and 335, please refer to the Basic Types Tech Data.

Physical Properties of Custom Laminate

NEMA Test	Typical Wilsonart Type 107 Value	NEMA Standard HGS	Typical Wilsonart Type 335 Value	NEMA Standard VGP
Thickness	0.048" ± 0.005" (1.2mm ± 0.13mm)	0.048" ± 0.005 (1.2mm ± 0.12mm)	0.028" ± 0.004" (0.71mm ± 0.1mm)	0.028" ± 0.004" (0.7mm ± 0.1mm)
Appearance	No ABC defects	No ABC defects	No ABC defects	No ABC defects
Light Resistance	Slight effect	Slight effect	Slight effect	Slight effect
Cleanability (cycles)	10	20 (max.)	10	20 (max.)
Stain Resistance Reagents 1-10 Reagents 11-15	No effect Slight effect	No effect Moderate effect	No effect Slight effect	No effect Moderate effect
Boiling Water Resistance	No effect	No effect	No effect	Slight effect
High Temperature Resistance	Slight effect	Slight effect	Slight effect	Slight effect
Impact Resistance	65" (1651mm)	50" (1270mm)	45" (1143mm)	20" (508mm)
Radiant Heat Resistance	160 seconds	125 sec. (min.)	120 seconds	80 sec. (min.)
Dimensional Stability Machine Direction Cross Direction	0.3% 0.7%	0.5% (max.) 0.9% (max.)	0.5% 0.8%	1.1% (max.) 1.4% (max.)
Surface Wear Resistance (cycles)	700	400 (min.)	700	400 (min.)

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.

Typical Frame Spread and Smoke Developed Properties Silk-Screen Process

Product Type	Test Condition	Flame Spread	Smoke Developed
Vertical Surface Type 363	Unbonded	30	15

Specific Flame Spread and Smoke Developed properties for Silk-Screen and Graphic Image types will depend on the specific design selected. Testing on individual designs will be required to verify these values.

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 Standards, 1st Edition, Version 1.0, - 2009)

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 Custom Laminate conforms to the relevant standards of the American National Standards Institute/National Electrical Manufacturers Association (ANSI/NEMA) LD 3-2005, for thickness, performance properties and appearance. Various grades of Wilsonart Custom Laminate 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 1: Specifications."

The GREENGUARD Environmental Institute™ has awarded its GREENGUARD Indoor Air Quality Certification to Wilsonart Laminate. All Wilsonart Laminate product types were tested under the stringent GREENGUARD Standards for low-emitting products. All GREENGUARD Indoor Air Quality Certified® products ensure minimal impact on the indoor environment. For a copy of the certificate, visit www.greenguard.org.

4. Installation: Fabrication and Assembly Recommendations

Wilsonart Specialty Laminate tends to be more brittle than conventional laminate, so it must be handled more carefully.

Both the laminate sheet and the substrate material should be ordered sufficiently in advance of fabrication to allow time to reduce internal moisture. During cold months, store laminate sheets and substrate material in a heated room with moving air. During periods of warm weather with high humidity, still air is preferable.

For best results, the room where fabrication takes place, as well as all materials, should be preconditioned to 65°F (18°C) or above. The ideal climate is 75°F (24°C) at 45% relative humidity.

Take care to ensure an appropriate moisture balance between the laminate and the substrate prior to fabrication. The face and backing laminate and the substrate should be conditioned in the same environment for 48 hours before fabrication.

Materials

Desirable substrate materials include particleboard, fiberboard and plywood with one A face. Any substrate material should have a density of at least 45 pounds per cubic foot.

Proper adhesive selection is critical to achieving a correct bond for all Wilsonart Laminates since glue lines must not show color. Rigid-set, permanent-type adhesives, such as white glue (PVAc), and uncolored contact adhesives are recommended. Wilsonart® Adhesives, available from your Wilsonart

product distributor, meet the majority of bonding conditions. Permanent PVAc types include Wilsonart WA10 and WA20. Contact adhesives include WA950.

Methods

Fabrication of components should be done using approved methods. Assembled pieces should meet specifications of DLPA (Decorative Laminate Products Association), ANSI-A-161.2-1979, and "Architectural Woodwork Quality Standards, Guide Specifications and Quality Certification Program" guidelines of the Architectural Woodwork Institute where applicable.

Give special attention to edges and seams. To prevent stress cracking, do not use square-cut inside corners. All inside corners should have a minimum of one-eighth inch (3.18mm) 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.

Use permanent adhesive to reinforce contact adhesive at corners, along all edges, and at seams.

5. Warranty

Wilsonart LLC warrants to the original consumer purchaser for one (1) year after date of purchase ("Warranty Period") that, under normal use and service, Wilsonart® Laminate Sheets are free from manufacturing defects and conform to published specifications. This warranty applies only to a Wilsonart Laminate Sheet which has been installed in an interior application and remains installed at that location ("Warranted Product") and is extended only to, and may be enforced only by, the original consumer purchaser. THIS WARRANTY IS NOT TRANSFERABLE. This warranty is expressly conditioned upon submission of proof of date of purchase.

WHAT IS EXCLUDED:

This warranty shall not apply to damage arising from any of the following:

1. Accidents, abuse or misuse;
2. Exposure to extreme temperature;
3. Improper fabrication or installation; or
4. Improper maintenance or repair.

WHAT WILSONART WILL DO IF YOUR CLAIM IS COVERED BY THIS WARRANTY

Wilsonart will provide, at no cost and with delivery prepaid, a Wilsonart® Laminate Sheet to replace the Warranted Product. Wilsonart will not pay for removal of the Warranted Product or for fabrication or installation of the replacement laminate or any other costs. No replacement under the warranty shall extend the Warranty Period.

Any replacement is limited to colors and styles of Wilsonart® Laminate Sheets available at the time of replacement. Exact color matches may not be possible. If the original color or style is no longer available, Wilsonart has the right to substitute another Wilsonart Laminate Sheet of equal or greater value than the Warranted Product.

WHAT YOU NEED TO DO

To make a claim under this warranty, you must contact the Wilsonart Warranty Center at the address listed below before the end of the Warranty Period. You must provide proof of date of purchase, photographs of the Warranted Product and access for inspection for warranty determination by a Wilsonart representative, and thereafter Wilsonart will provide you a determination on your claim.

Wilsonart Warranty Center
2400 Wilson Place
Temple, Texas 76504
877-537-0533... Toll Free

THE FOREGOING SHALL CONSTITUTE THE EXCLUSIVE REMEDY OF THE PURCHASER AND THE EXCLUSIVE LIABILITY OF WILSONART.

THE ABOVE WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES WHETHER ORAL OR WRITTEN. ANY IMPLIED WARRANTIES WHICH MAY ARISE BY OPERATION OF LAW, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE PERIOD OF THE WRITTEN WARRANTY SET FORTH HEREIN.

WILSONART SHALL NOT, UNDER ANY CIRCUMSTANCES OR UNDER ANY LEGAL THEORY, BE LIABLE TO THE PURCHASER OR ANY OTHER PERSON FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION DAMAGES TO, OR LOSS OF USE OF, PROPERTY, DAMAGES FOR LOSS OF PROFITS OR REVENUES OR ANY OTHER DAMAGES ARISING FROM THE PURCHASE. WILSONART'S LIABILITY WILL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE WILSONART® PRODUCT.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

No agent, dealer, employee or representative of Wilsonart nor any installer, fabricator or other person is authorized to modify the warranty in any respect.

The invalidity of all or a part of any of the provisions of the Limited Warranty shall not affect or invalidate any other provision of the Limited Warranty.

For further assistance or questions, contact Wilsonart at the address or telephone number listed above or at www.wilsonart.com.

6. Maintenance*

The decorative surface may be cleaned with warm water and mild soaps, such as those used for hands or dishes. Do not use cleansers that contain abrasives, acids or alkalis; they will damage the decorative surface. Remove stubborn stains with a 2-minute exposure to hypochlorite bleach such as Clorox®, followed by a clean water rinse.

We recommend that you **not** allow any of the following reagents to **remain** in contact with the decorative surface:

1. Hypochlorite bleach, except as described above
2. Hydrogen peroxide solution
3. Mineral acids, hydrochloric acid such as Lime-A-Way™, sulfuric or nitric acid
4. Caustic solutions containing greater than 2% lye, such as Drano®
5. Sodium bisulfate, such as Sani-Flush®
6. Potassium permanganate
7. Berry juices
8. Silver nitrate, in 1% concentration or greater
9. Gentian violet
10. Mild silver protein, such as 20% argyrol
11. Bluing
12. Fabric dye, such as Tintex® or Rit®
13. Alcohol containing 1% iodine in solution

If you require a decorative laminate that can withstand these and other chemicals, please refer to the Tech Data for Wilsonart® Chemsurf® Chemical-Resistant Laminates.

Free copies of the "Care and Maintenance Guide," which covers all Wilsonart products, are available. The guide can be accessed at <http://www.wilsonartlaminate.com> or by calling our hotline at: 800-433-3222. It can be used for your own information, for project manuals, and for provision to clients and contractors involved with interior construction and finishing.

*Not applicable for Phenolic Laminate Backing Sheet.

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

Type: Specify

Silk-Screen (Types 173 and 363)

Graphic Image (Types 174 and 364)

Surface (Silk-Screen only)

Color Number: _____

Color Name: _____

Edge Trim

Color Number: _____

Color Name: _____

Adhesive

Name: _____

Grade/Type: _____

Brand: Wilsonart Adhesive

Note: Please consult with the Custom Laminate Department (800-433-3222) for instructions to complete this document.

CustomLam (TD0391)

Revised: May 8, 2013

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Wilsonart® High Wear Laminate Technical Data

1. Manufacturer

Wilsonart LLC
2400 Wilson Place
P.O. Box 6110
Temple, Texas 76503-6110
Phone: (254) 207-7000; (800) 433-3222
Fax: (254) 207-2384
Web Site: www.wilsonartlaminates.com

2. Product Description

Recommended Uses: Wilsonart® High Wear Laminate offers five times the abrasion and scuff resistance of conventional laminate. It is produced for commercial, contract and institutional applications where a decorative surface must withstand more than normal wear. Typical applications of High Wear Laminate include checkout counters in retail stores; restaurant and fast food fixtures and casework; tabletops; change counters; bank deal plates and tellers' desks; wall panels, wainscoting and institutional furniture.

High Wear Laminate is manufactured in three extra-high wear (HW) types:

- General Purpose (HGS) Type 107HW is produced for both horizontal and vertical interior applications such as commercial interior doors, walls and wainscoting, which must combine a pleasing appearance with enhanced resistance to both impact and abrasion.
- Vertical Surface (VGS) Type 335HW is intended for vertical applications where a functional, durable, decorative surface must absorb somewhat less impact than a comparable horizontal surface.
- Postforming (HGP) Type 350HW 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 a substrate. This eliminates seams and leaves an attractive surface.

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

Basic Limitations: Wilsonart High Wear Laminates are interior surfacing, not structural materials. They must be bonded to suitable substrates.

Do not subject these laminates to extremes in humidity or to temperatures over 275°F (135°C) for sustained periods of time.

They should not be exposed to flame, molten metal, metallic sparks or intense, continuous direct sunlight. They should not be used as cutting surfaces.

Wilsonart High Wear Laminate is for interior use only and should not be subjected to extremes in humidity or to temperatures over 275°F (135°C) for sustained periods of time. It also should not be exposed to intense, continuous, direct sunlight.

Pattern and Color Availability:

Wilsonart High Wear Laminate is available in most **Standard Line (DG1)** patterns.

Custom Laminate: Silk Screen & Digital Image are NOT available
Non-Standard Line (DG2) patterns are NOT available

Please verify pattern, size and finish availability by checking the Laminate Pattern Availability Search @ <http://www.wilsonartcontract.com/fast-pattern-result/>

Finishes

#60 Matte ONLY

A textured finish with a moderate reflective quality. Glossometer reading: MD and CD 10 ± 2.

NOTE: Glossometer readings are made at a 60° angle of incidence. MD means the machine direction of a laminate sheet, and CD refers to the cross direction.

Product Type & Size Availability

General Purpose Type	107HW
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Postforming Types	335HW	350HW
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Sheet Width	48" (1219mm)	60" (1524mm)
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Sheet Length	96" (2438mm)	120" 3048mm	144" (3658mm)
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Sheet Thicknesses

Product Type	Typical Wilsonart Thickness	NEMA Thickness	Weight PSF
General Purpose Type 107HW (HGS)	0.048" ± 0.005" (1.22mm± 0.13mm)	0.048" ± 0.005" (1.2mm± 0.12mm)	0.322#
Vertical Surface Type 335HW (VGP & VGS)	0.028" + 0.001" - 0.004" (0.71mm + 0.03 - 0.10mm)	0.028" ± 0.004" (0.7mm ± 0.10mm)	0.186#
Postforming Type 350HW (HGP & HGL)	0.039" ± 0.005" (0.99mm ± 0.13mm)	0.039" ± 0.005" (1.0mm ± 0.12mm)	0.260#

Technical Data

Physical Properties of High Wear Laminate

NEMA Test	Wilsonart High Wear Laminate	Typical Wilsonart High Wear Laminate Value	NEMA Standard*
Wear Resistance (cycles)	All types	3,200	3,000
Boiling Water Resistance	All types	No effect	No effect
High Temperature Resistance	All types	Slight effect	Slight effect
Radiant Heat Resistance			
HGS	General Purpose 107HW	140 seconds	125 seconds
VGS	Vertical Surface 335HW	85 seconds	80 seconds
HGP	Postforming 350HW	110 seconds	100 seconds
Stain Resistance Reagents			
1-10	All types	No effect	No effect
11-15	All types	Moderate effect	Moderate effect
Light Resistance	All types	Slight effect	Slight effect

Impact Resistance HGS	General Purpose 107HW	60" (1524mm)	50" (1270mm)
VGS	Vertical Surface 335HW	24" (609mm)	20" (508mm)
HGP	Postforming 350HW	50" (1270mm)	30" (762mm)
Cleanability (cycles)	All types	10	20 (max.)
Appearance	All types	No ABC defects	No ABC defects
Formability**	Postforming Type	9/16" face (14mm) 3/16" back (5mm)	5/8" face (16mm)

**NEMA Standards given are for standard high-pressure decorative laminates.*

***Radius listed 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.*

Dimensional Stability: Gross Dimensional Change

Wilsonart High Wear Laminate	Direction of Change	Typical Wilsonart High Wear Laminate Value	NEMA Standard*
HGS: General Purpose (107HW)	Machine Direction	0.3%	0.5%
	Cross Direction	0.7%	0.9%
VGS: Vertical Surface (335HW)	Machine Direction	0.5%	0.7%
	Cross Direction	0.8%	1.2%
HGP: Postforming (350HW)	Machine Direction	0.5%	1.1%
	Cross Direction	0.8%	1.4%

**NEMA Standards given are for standard high-pressure decorative laminates.*

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 High Wear Laminates:

Typical Flame Spread and Smoke Developed Properties

Product Type	Test Condition	Flame Spread	Smoke Developed
General Purpose Type 107HW	Unbonded	55	55
Vertical Surface Type 335HW	Unbonded	40	40
Postforming Type 350HW	Unbonded	45	55

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 (Maximum Rating)	International (IBC)	Life Safety (NFPA 101)
25	A	A
75	B	B
200	C	C

(Reference: 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

All Wilsonart Laminates are manufactured to meet or exceed relevant standards of the American National Standards Institute/National Electrical Manufacturers Association (ANSI/NEMA) LD3-2005 as well as appropriate governmental and professional codes.

The GREENGUARD Environmental Institute™ has awarded its GREENGUARD® Indoor Air Quality Certification to Wilsonart Laminate. All Wilsonart Laminate product types were tested under the stringent GREENGUARD Standards for low-emitting products. All GREENGUARD Indoor Air Quality Certified products ensure minimal impact on the indoor environment. For a copy of the certificate, visit www.greenguard.org.

All Wilsonart Laminate products are tested regularly for code compliance for building construction and other applications. Here are some examples of frequently encountered regulations:

Basic Construction

U.S. Federal Specification L-P 508H, April 9, 1977, "Plastic Sheets, Laminated, Decorative and Nondecorative" spells out criteria for general purpose, vertical and postforming types, as well as backing sheets for federal installation. High Wear Laminate types in compliance include 107HW General Purpose, 335HW Vertical Surface and 350HW Postforming.

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, with #60 finish comply.

Mobile Homes. U.S. Federal Register August 9, 1984, Housing and Urban Development Mobile Home Construction and Safety Standard, (24CFR), Part 3280.203. High Wear Laminate Type 107HW General Purpose complies with paragraphs 1, 4 and 6.

Motor Vehicles/Interiors. U.S. Federal Motor Vehicle Safety Standard (FMVSS) 302, "Flammability of Interior Materials." High Wear Laminate types in compliance include patterns in 107HW General Purpose, 335HW Vertical Surface and 350HW Postforming types.

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 Specification 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. High Wear 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" (3.18mm) 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 approximately 75°F (24°C). Laminates should be conditioned at 45% to 55% relative humidity.

With postforming machinery, Wilsonart 335HW and 350HW 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

Wilsonart LLC warrants to the original consumer purchaser for one (1) year after date of purchase ("Warranty Period") that, under normal use and service, Wilsonart® Laminate Sheets are free from manufacturing defects and conform to published specifications. This warranty applies only to a Wilsonart Laminate Sheet which has been installed in an interior application and remains installed at that location ("Warranted Product") and is extended only to, and may be enforced only by, the original consumer purchaser. **THIS WARRANTY IS NOT TRANSFERABLE.** This warranty is expressly conditioned upon submission of proof of date of purchase.

WHAT IS EXCLUDED:

This warranty shall not apply to damage arising from any of the following:

1. Accidents, abuse or misuse;
2. Exposure to extreme temperature;
3. Improper fabrication or installation; or
4. Improper maintenance or repair.

WHAT WILSONART WILL DO IF YOUR CLAIM IS COVERED BY THIS WARRANTY

Wilsonart will provide, at no cost and with delivery prepaid, a Wilsonart® Laminate Sheet to replace the Warranted Product. Wilsonart will not pay for removal of the Warranted Product or for fabrication or installation of the replacement laminate or any other costs. No replacement under the warranty shall extend the Warranty Period. Any replacement is limited to colors and styles of Wilsonart® Laminate Sheets available at the time of replacement. Exact color matches may not be possible. If the original color or style is no longer available, Wilsonart has the right to substitute another Wilsonart Laminate Sheet of equal or greater value than the Warranted Product.

WHAT YOU NEED TO DO

To make a claim under this warranty, you must contact the Wilsonart Warranty Center at the address listed below before the end of the Warranty Period. You must provide proof of date of purchase, photographs of the Warranted Product and access for inspection for warranty determination by a Wilsonart representative, and thereafter Wilsonart will provide you a determination on your claim.

Wilsonart Warranty Center
2400 Wilson Place
Temple, Texas 76504
877-537-0533... Toll Free

THE FOREGOING SHALL CONSTITUTE THE EXCLUSIVE REMEDY OF THE PURCHASER AND THE EXCLUSIVE LIABILITY OF WILSONART.

THE ABOVE WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES WHETHER ORAL OR WRITTEN. ANY IMPLIED WARRANTIES WHICH MAY ARISE BY OPERATION OF LAW, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE PERIOD OF THE WRITTEN WARRANTY SET FORTH HEREIN.

WILSONART SHALL NOT, UNDER ANY CIRCUMSTANCES OR UNDER ANY LEGAL THEORY, BE LIABLE TO THE PURCHASER OR ANY OTHER PERSON FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION DAMAGES TO, OR LOSS OF USE OF, PROPERTY, DAMAGES FOR LOSS OF PROFITS OR REVENUES OR ANY OTHER DAMAGES ARISING FROM THE PURCHASE. WILSONART'S LIABILITY WILL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE WILSONART® PRODUCT.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

No agent, dealer, employee or representative of Wilsonart nor any installer, fabricator or other person is authorized to modify the warranty in any respect.

The invalidity of all or a part of any of the provisions of the Limited Warranty shall not affect or invalidate any other provision of the Limited Warranty.

For further assistance or questions, contact Wilsonart at the address or telephone number listed above or at www.wilsonart.com.

5. Maintenance

The decorative surface may be cleaned with warm water and mild soaps, such as those used for hands or dishes. Do not use cleansers that contain abrasives, acids or alkalis; they will damage the decorative surface. Remove stubborn stains with a 1 1/2-minute exposure to hypochlorite bleach such as Clorox®, followed by a clean water rinse.

We recommend that you **not** allow any of the following reagents to **remain** in contact with the decorative surface:

1. Hypochlorite bleach, except as described above
2. Hydrogen peroxide solution
3. Mineral acids, hydrochloric acid such as Lime-A-Way™, sulfuric or nitric acid
4. Caustic solutions containing greater than 2% lye, such as Drano®
5. Sodium bisulfate, such as Sani-Flush®
6. Potassium permanganate
7. Berry juices
8. Silver nitrate, in 1% concentration

- 9. Gentian violet
- 10. Mild silver protein, such as 20% Argyrol
- 11. Bluing
- 12. Fabric dye, such as Tintex® or Rit®
- 13. Alcohol containing 1% iodine in solution

Free copies of the “Care and Maintenance Guide,” which covers all Wilsonart products, are available. The guide can be accessed at <http://www.wilsonartlaminates.com> or by calling our hotline at: 800-433-3222. It can be used for your own information, for project manuals, and for provision to clients and contractors involved with interior construction and finishing.

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: 107HW, 335HW or 350HW	
Surface	
Color Number:	_____
Color Name:	_____
Finish	
Number:	_____
Name:	_____
Edge Trim	
Color Number:	_____
Color Name:	_____
Adhesive	
Name:	_____
Grade/Type:	_____
Brand:	Wilsonart Adhesive
Material shall equal or exceed performance standards set by the American National Standards Institute/National Electrical Manufacturers Association (ANSI/NEMA) LD3-2005 for high-pressure laminate. Fabrication shall comply with “Architectural Woodwork Quality Standards, Guide Specifications and Quality Certification Program” guidelines of the Architectural Woodwork Institute.	

High Wear TD (TD1901)
Revised: January 16, 2013
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