



Wilsonart® SOLICOR™ Compact Laminate (#560) Technical Data

Manufacturer

Wilsonart
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

Product Description

Wilsonart® SOLICOR™ Compact Laminate is a self-supporting, ½" thick High Pressure Decorative Laminate panel available in a color-through core of white or black in a selection of finishes; Gloss or Matte. The continuous color core of SOLICOR Compact provides any application with a solid one-piece effect.

Recommended Uses

Compact panels are mainly used for applications such as wall paneling, furniture manufacturing and worktops in the following sectors:

- **Healthcare**
Laboratory bench tops, furniture, tables, headboards, hallways, handrails, cubicles, shower areas
- **Interior Commercial Applications**
Reception desks, wall paneling and partitions, contemporary furniture
- **Residential**
Window sills and frames, step risers, kitchen worktops, tables, sideboards
- **Education**
School furniture, lockers, cubicles, partitions and doors
- **Transportation**
Interior fittings, signage

Product Composition

Wilsonart® SOLICOR™ Compact Laminate is a distinctive surfacing material composed of decorative papers impregnated with melamine resins and pressed over a white or black decor paper core impregnated with special thermosetting resins to achieve an overall thickness of ½" thick. These sheets are then bonded at pressures and temperatures similar to HPL.

- **Classic Grade SOLICOR™ Compact Laminate Type 560** High Pressure Wilsonart® SOLICOR™ Compact Laminate is designed for both horizontal and vertical applications in a ½" thickness.

Basic Limitations

Wilsonart® SOLICOR™ Compact Laminate panels offer special protection for many work surface applications. This product type is designed for interior applications. However, no one material is suitable for all possible conditions; its properties should be checked for suitability under the specific conditions of each application.

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



Patterns & Colors

Wilsonart® SOLICOR™ Compact Laminate is available in a select range of Wilsonart solid colors and finishes.

- D427 Linen – 01 and 60 finishes
- 1595 Black – 01 and 60 finishes

Finishes

- #01 High Gloss
A mirror sheen finish, which gives a smooth, brilliant appearance. #01-High Gloss finish can be used for horizontal applications such as countertops and light to medium commercial applications. Excellent for vertical applications.
- #60 Matte
A textured finish with a moderate reflective quality. It is recommended for horizontal and vertical applications.

Technical Data

Wilsonart® SOLICOR™ Compact Laminate is a solid and dense material which is highly resistant to impact, scratches, chemical products, wear etc. The construction and thickness of the product leads it to be water-repellent, impervious to water and rot-proof and are particularly suitable for wet areas. They are resistant to water, steam, mold, rot, frost, and heat. Heat resistance of SOLICOR Compact is higher than most plastic products. Short term contact of 180 °C or slightly above is possible.

Standard Sheet

SOLICOR Compact Laminate D427 Linen -01F and -60F	SOLICOR Compact Laminate 1595 Black -01F and 60F
52" ± 0.39"	48" ± 0.25"
1320mm ± 10.0mm	1219mm ± 6.35mm

Standard Sheet Lengths

SOLICOR Compact Laminate D427 Linen -01F and -60F	SOLICOR Compact Laminate 1595 Black -01F and -60F
120.87" ± 0.39"	120.08" ± 0.25"
3070mm ± 10.0mm	3050mm ± 6.35mm

Thickness and Weight

Description	SOLICOR Compact Laminate 560	
	D427 Linen -01F and -60F	1595 Black -01F and -60F
Thickness	0.492" ± 0.031" (12.5mm ± 0.80mm)	0.50" ± 0.025" (12.7mm ± 0.635mm)
Weight per square foot	3.59 lbs.	3.62 lbs.

Product Testing and Standards

CHARACTERISTICS	DESIGN		D427
	FINISHES		Gloss -01F and Matte -60F
	THICKNESS		12.5mm
	STANDARD	UNITS	
Physical and dimensional properties			
Density	EN ISO 1183-1	g/cm ³	≥ 1.40
Thickness tolerance	EN 438-2-5	mm	± 0.80
Length and width tolerance	EN 438-2-6	mm	10
Straightness tolerance	EN 438-2-7	mm/m	≤ 1.5
Squareness tolerance	EN 438-2-8	mm/m	≤ 1.5
Flatness tolerance	EN 438-2-9	mm/m	≤ 5.0
Dimensional stability at high temperature			
- Longitudinal	EN 438-2-17	%	≤ 0.50
- Transverse			≤ 0.80
Mechanical properties			
Modulus of elasticity	EN ISO 178	MPa	≥ 9000
Bending strength	EN ISO 178	MPa	≥ 80
Surface cohesion	EN ISO 527-2	MPa	≥ 60
Resistance to boiling water			
- Mass increase	EN 438-2-21	%	≤ 3
- Thickness increase		%	≤ 4
- Appearance		Class ^(a)	Gloss: 3 / Matte: 4
Impact resistance (large diameter ball)	EN 438-2-21	mm	≥ 1800
(drop height for ≤ 10mm diameter imprint)			
Resistance to cracking - SURFACE	EN 438-2-24	Class ^(a)	Gloss: 3 / Matte: 4
Resistance to cracking - CORE	EN 438-2-24	Class ^(a)	3
Surface properties			
Surface defects			
- Spots	EN 438-2-4	mm ² /m ²	≤ 1
- Linear		mm/m ²	≤ 10
Abrasion resistance (initial point)	EN 438-2-10	No. of revolutions	≥ 150
Resistance to steam	EN 438-2-14	Class ^(a)	Gloss: 3 / Matte: 4
Dry heat resistance 180 °C	EN 438-2-16	Class ^(a)	Gloss: 3 / Matte: 4
Scratch resistance	EN 438-2-25	Class ^(a)	Gloss: 2 / Matte: 3
Stain Resistance			
- Groups 1 & 2	EN 438-2-26	Class ^(a)	5
- Group 3			4
Color fastness under artificial light	EN 438-2-27	Grayscale	4 to 5
Resistance to cigarette burns	EN 438-2-30	Class ^(a)	3
Fire performance			
Fire rating	ASTM E 84	Flame Spread Index	20
		Smoke Development Index	70

Fire Rating

For fire retardant properties required by building codes for the use in elevator cabs, stairwells, and hospitals the D427 Linen SOLICOR™ Compact Laminate has received a Class A/1 Fire Rating on the ASTM E 84 testing protocol. The 1595 Black SOLICOR Compact Laminate has received a Class B/2 Fire Rating on the ASTM E 84 testing protocol.

Handling, Storage, and Conditioning

When handling Wilsonart® SOLICOR™ Compact Laminate, it is recommended to lift the panels individually to avoid scratching. It is recommended to prevent the decorative surfaces from sliding against one another. It is possible to use a gripping system, such as a suction pad.

Use flat and rigid pallets that are at least the same sizes as the panels to avoid sliding and unstable positioning. The maximum spacing between supporting boards must be 24" (609.6mm). Store the panels in closed premises, safe from humidity and heat (50 to 86°F (10 to 30 °C) and 40 to 60% RH). In the case of horizontal storage on pallets, put a protective paper of an adequate size between the pallet and the panels and on the top panel. It is advisable to keep the panels wrapped inside their original packaging (plastic lining). Flat storage of the panels prevents deformations occurring. Do not store filmed panels for longer than six months.

Prior to installation, it is recommended to store the SOLICOR Compact panels for about 3 days in premises with the following environmental conditions

- Temperature from 64 to 77°F (18 to 25°C)
- Relative humidity from 40 to 60%

When installing the SOLICOR Compact panels, remove the protection films from both sides simultaneously. For optimal results, we recommend that identical ventilation is assured on both sides.

NOTE: Before any fabrication and installation, always make sure that the two sides of the SOLICOR Compact panel are clean and that no abrasive particles are present.

Stain and Chemical Resistance

The hard, non-porous surface of high pressure laminate panels makes compact panels highly resistant to staining and chemical products (according to standard EN438).

Common Stain and Removal

Type of stain	Domestic cleaning product	Mineral spirits	Acetone
Ball point pen		X	X
Glue			X
Coffee	X		
Lipstick	X		X
Nail lacquer			X
Nicotine	X		
Oil	X		X
Rust	X		
Polish	X		X
Tea	X		
Paint			X
Grease	X		X
Felt tip pen		X	
Fingerprints	X		X
Fruit juice	X		
Wax	X		X
Wine	X		

Products giving no deterioration after a maximum of 16 hour contact

A	Butyl acetate	for livestock farming included	Mercury
Acetone	C	Forage	Mesolinosite
Weak acids, such as:	Cadmium acetate	Formaldehyde-Formol	Methanol
• acetic	Caffeine	Fructose	Methyl ethyl ketone
• ascorbic	Calcium carbonate	Fruit sugar	Methylene chloride
• aspartic	Calcium oxyde	G	Milk
• benzoic	Carbon tetrachloride	Galactose	Mud
• boric	Carbons	Gelatines	N
• citric	Caseine	Glucose	Nail polish
• cresylic	Cements	Water soluble glues	Nail polish removers
• formic acid below 10%	Chloral hydrate	Glycerin	Naphtalene
• lactic	Chlorobenzene	Glycocol	Naphtol
• oleic	Chloroform	Glycol	Naphtylamine
• phenic	Cholesterol	Graphite	Nicotine
• salicylic	Cocaine	Grease	Nitrophenol
• stearic	Coffee	H	O
• tartaric	Colloidal sulfur	Heating oil	Octanol
• uric	Cresol	Heparin	Animal, mineral and vegetable oils
Active carbons	Culture broth (benchmarks I and II)	Heptanol	Ointments
Alcoholic and non alcoholic beverage	Cyclohexane	Hexane	P
Alcohols and fatty alcohols:	Cyclohexanol	Hexanol	Paraffin
• primary alcohols	D	Hydrated lime	Pentanol
• secondary alcohols	Detergents	Hydrogen peroxide 3 % volume	Peptones
• tertiary alcohols	Dextrose (glucose)	Hydroquinone	Perfumes
Aldehydes	Dichlorethane	Hypophysin	Petrol-oil
Aluns	Dichlorethylene	I	Petroleum jelly
Amides	Dichloromethane	Imido «Roche»	Phenol
Primary amines	Digitonin	Ink	Phenolphthalein
Secondary amines	Dimethyl sulfoxyde	Inosine	Substituted phenols
Tertiary amines	Dimethylformamide	Insecticides	Plaster (gypsum)
Aminoacetophenone	Dioxane	Isoamyl acetate	Polish
Ammonia	Dulcitol	Isopropanol	Potassium below 10 %
Amyl acetate	Dyes	K	Propanol
Amylic alcohol	E	Kaolinite clay	Propylene glycol
Amylums	Esters	Ketones	Pyridine
Arabinose	Ethanol	L	Q
Asparagine	Ether	Lacquers	Quinine
B	Ethyl acetate	Lactose	R
Beauty products	Ethyl acetique ester	Lampblack	Raffinose
Benzaldehyde	Ethyl ether	Lead acetate	Blood typing reagents
Benzene	F	Lipstick	Nonne-Apelt's reagents
Benzidine	Animal and vegetable fats	Lithium hydroxyde (below 10 %)	Pandy's reagents
Biogel	Fatty materials	M	Topfer's reagents
Blood	Food	Magnesium hydroxyde	Rhamnose
Broth	Foodstuff	Maltose	S
Butanol-Butylic alcohol	Various foodstuff,	Mannite	Salicylaldehyde
		Mannose	

S Cont.
Saline solutions
• Aluminium chloride
• Aluminium sulfate
• Ammonium chloride
• Ammonium nitrate
• Ammonium sulfate
• Ammonium sulfide
• Ammonium thiocyanate
• Barium chloride
• Barium sulfate
• Cadmium sulfate
• Calcium carbonate
• Calcium chloride
• Calcium nitrate
• Copper sulfate
• Lead nitrate
• Lithium carbonate
• Magnesium carbonate
• Magnesium chloride
• Magnesium sulfate
• Nickel sulfate
• Potassium bromate
• Potassium bromide
• Potassium carbonate
• Potassium chloride
• Potassium ferrocyanide
• Potassium iodate
• Potassium nitrate
• Potassium perborate
• Potassium sulfate

• Potassium tartrate
• Sodium bicarbonate
• Sodium carbonate
• Sodium chlorate
• Sodium chloride
• Sodium citrate
• Sodium diethylbarbiturate
• Sodium nitrate
• Sodium perborate
• Sodium potassium tartrate (Rachelle's or Seignette's salt)
• Sodium silicate
• Sodium sulfate
• Sodium sulfide
• Sodium tartrate
• Sodium thiosulfate
• Trisodium phosphate
• Zinc chloride
• Zinc sulfate
Cooking salt
Saponin
Serine
Shampoo
Soaps
Sodium acetate
Sodium hydroxide below 10 %
Soil
Organic solvents
Soot
Sorbitol
Standard Agar 1 and 2

Starch
Starches
Styrene
Sucrose
Sugars and syrups
T
Talc
Tanin
Tea
Tetrahydrofuran
Tetraline
Thiourea
Thymol
Toluene
Toothpaste
Trehalose
Trichloroethylene
Trichloroethane
Trypsin
Tryptophan
Turpentine
U
Urea
Urine
V
Vanillin
Vinegar
W
Washing powder
Water
Watercolours

Wax
Wine
X
Xylene
Y
Natural/chemical yeast

Product shows no visible signs of deterioration only if the contact is short term

Compact panels are not affected when drops or splashes of the following substances are removed within 10 to 15 minutes by rinsing the product with a clean wet cloth and then wiped dry.

A
The following acids, also in saturated solutions:
• formic
• oxalic
• picric
Acids in solution below 10%:
• aminosulphonic
• arsenic
• chloridric
• fluoridric
• nitric
• oxalic
• perchloric
• phosphoric
• sulphuric
• sulphurous
Aniline
B
Bleach
C
Crystal Violet
D
Decolorant-Stripper
Descaling agents

Dye
F
Fuchsine
H
Hardener-based glues
Hardener-based paints
Hydrogen peroxide up to 30% vol.
I
Iodine tincture
L
Lithium hydroxyde above 10%
M
Methyl violet
Methylene blue
P
Potassium hydroxide above 10%
R
Esbach's reactive
Million's reactive
Nylander's reactive
S
Saline solutions of:
• ammonium acid sulfate

• ferric chloride
• ferrous chloride
• mercurochrome
• mercury bichromate
• mercury chloride
• potassium acid sulfate
• potassium bichromate
• potassium chromate
• potassium iodine
• potassium permanganate
• silver nitrate
• sodium acid sulfate
• sodium hydrogen sulfite (or sodium bisulfite)
• sodium thiosulfate (or sodium hyposulfite)
Soda above 10%
T
Tinctures

Product could be permanently damaged unless substances are immediately removed

The following chemicals and substances may leave mat and rugged rings and should be removed immediately by cleaning and wiping dry.

Acids above 10% :
• aminosulphonic
• arsenic
• hydrochloric
• nitric
• perchloric
• phosphoric
• sulphuric

Strong acids :
• aqua regia
• chromic
• hydrobromic
• hydrofluoric
• sulfochromic

Aggressive vapors and gases that will affect the surface

Acid vapor
Bromine vapor
Chlorine vapor
Nitric vapor
Sulphur dioxide vapor

Cleaning and 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.

- Daily maintenance is easy using a soapy sponge or soft cloth.
- For stubborn stains, use an appropriate organic solvent (such as white spirit, acetone, household alcohol etc.), rinse with warm water and wipe with an all-purpose paper towel.
- Never use abrasive products (scouring powder, steel wool, black soap) or bleaching agents, wax furniture polishes, cleaning products containing strong bases, acids or their salts (limescale removers, hydrochloric acid, drain cleaning products, silver cleaning products etc.).
- Spots of glue may be removed immediately. Neoprene or silicone joint blobs must be removed with the appropriate solvent and vinyl glue with warm water. Residual flakes of glue may be removed with acetone.
- Abrasion marks are more visible on dark decors (micro-scratches). Such marks are just a visual alteration, which does not imply low quality of the surface. This characteristic should be taken into account depending on the final use of the product.
- Gloss surfaces are more subject to scratching due to their smooth structure. Scratch marks are just a visual alteration which does not imply low quality of the surface. This characteristic should be taken into account depending on the final use of the product.
- The Wilsonart[®] SOLICOR[™] Compact Laminate D427 Linen white core does not alter after coming into contact with many types of stains (fruit juice, oil, hydrogen peroxide 30%, acetone etc.), but it is more sensitive to certain colored staining agents such as wine, eosin and so on.
- It is recommended to remove the stains immediately. In case of persistent stains, it is possible to treat the edges by sanding with fine sandpaper and a sanding block. Wilsonart tests the SOLICOR Compact panel cores in the same way as surfaces, but according to standard EN438 the formers are not subject to specific needs in terms of stain resistance.
- Respecting certain rules ensures a longer life of compact laminate panels:
 - Systematically use cutting boards and heatproof mats to protect surfaces.
 - Immediately wipe spilled liquids and avoid leaving stagnant water.
 - Prevent abrasive objects from sliding across the surface.

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

- Hypochlorite bleach, except as described above
- Hydrogen peroxide solution
- Mineral acids, hydrochloric acid such as Lime-A-Way[™], sulfuric or nitric acid
- Caustic solutions containing greater than 2% lye, such as Drano[®]
- Sodium bisulfate, such as Sani-Flush[®]
- Potassium permanganate
- Berry juices
- Silver nitrate, in 1% concentration or greater
- Gentian violet
- Mild silver protein, such as 20% argyrol
- Bluing
- Fabric dye, such as Tintex[®] or Rit[®]
- 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 www.wilsonart.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.



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® SOLICOR™ Compact Laminate Sheets are free from manufacturing defects and conform to published specifications. This warranty applies only to a Wilsonart® SOLICOR™ Compact Laminate Sheet which has been installed in an interior application and it 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:

- Accidents, abuse or misuse;
- Exposure to extreme temperature;
- Improper fabrication or installation;
- or 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® SOLICOR™ Compact 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® SOLICOR™ Compact 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 SOLICOR™ Compact 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
2501 Wilsonart Drive
P.O. Box 6110
Temple, Texas 76503-6110
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.

Technical Services

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

Specification Form:	
Surface shall be Wilsonart® SOLICOR™ Compact Laminate,	
Produced by Wilsonart	
Temple, Texas 76503-6110	
Type: Specify 560	
Surface	
Color Number:	_____
Color Name:	_____
Finish	
Number:	_____
Name:	_____
Edge Trim	
Color Number:	_____
Color Name:	_____
Adhesive	
Name:	_____
Grade/Type:	_____
Brand:	Wilsonart Adhesive

Wilsonart® SOLICOR™ Compact Laminate Type 560 TD (TD2200)
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