COMPARISONS

Iknow that on the market you can find other products with a similar look, like the Nano glass, Corian and Neopariés for example. But you must pay attention. Most of them are not real Glass, some have resins inside, some cannot be used outdoors, some could not be bend or thermoformed, some does not have real pure White and Black colors.

Here are some comparisons with all these other materials.

COMPARISON with NANO

- Nano is NO Glass, is another kind of product.
- Nano has resins inside
- Nano cannot be used outdoor
- Nano is not possible to bend or thermoform

Nano color is a little bit different: it's more Cream, NOT White.

Here below are the most important advantages of STONEGLASS®:

- STONEGLASS® has a PURE White with NO impurity, try to compare!
- STONEGLASS® has a perfect caliber
- STONEGLASS® has NO air-bubbles inside
- STONEGLASS® has NO resin, NO solvent inside
- STONEGLASS® is NO toxic to workable
- STONEGLASS® can be Tempered
- STONEGLASS® can be Thermoformed
- STONEGLASS® is available in three thickness: 12, 15, 18 and 30 mm
- STONEGLASS® Black color is PERFECT and PURE
- STONEGLASS® has seven (7) finishes:

  White Polished, White Matt/Honed, White Breeze
  Black Polished, Black Matt/Honed, Black Breeze, Black/Grey Breeze
- STONEGLASS® is resistant to UV rays
- STONEGLASS® is 100% RECYCLABLE and can be certified LEED
- STONEGLASS® has ALL standard certifications UNI EN from Europe Community
- STONEGLASS® has a 12 Years Warranty
- STONEGLASS® is used vastly around the world

PLUS to all this, STONEGLASS® can be worked with the SAME machines and the SAME technics like regular Glass is worked.

We don't hold back nothing!! We provide a complete Technical Manual with all our Know-Hows that we share for free for all our clients.
Our technicians will be at disposal for any inquiry our clients might have.

COMPARISON with CORIAN

	Corian	Granite	STONEGLASS®
Durability	Durable	Durable	Durable
Resistant to acidic foods	Yes	Mostly	Yes
May be damaged by cleaning liquids	No	Yes, depending on ingredients. Use gentle dish soaps.	No
Porous	No	Yes Hard Natural rock under the surface of the earth	No
Hardness	Fragile like glass		Hard like Granite
Origin	Manufactured by DuPont	A combination of minerals, mostly feldspar, quartz and mica	Manufactured by STONEGLASS®
Composition	Made from 1/3 Acrylic Polymer and 2/3 Aluminum Trihydrate	Yes Yes	100% crystallized Glass
Stainable	No		No
Usable outdoors	Yes		Yes
Applications	Kitchen and bathroom countertops, furniture, home decor, lighting, faux walls, art work, wall cladding	Kitchen and bathroom countertops, monuments, rock climbing	Kitchen and bathroom countertops, vanity, home decor, lighting, faux walls, art work, monuments, wall cladding, ventilated facades, swimming pools, stairway, floors
Heat resistant	Yes, but becomes pliable at 325 degrees Fahrenheit / 160 degree Celsius	Yes	Yes

Introduction	Corian is the brand name for a solid surface material created by DuPont. It is composed of acrylic polymer and alumina trihydrate. Corian can be thermoformed by heating it to 300 °F (150 °C), allowing unique shapes to be created.	Granite is a common type of intrusive, felsic, igneous rock which is granular and phaneritic in texture. This rock consists mainly of quartz, mica, and feldspar.	STONEGLASS® is the brand name for a pure glass created by STONEGLASS®. It is composed of 100% glass and crystallized so to have it strong like Granite. STONEGLASS® can be thermoformed allowing unique shapes to be created.
Scratch resistant	No, but scratches can be fixed with a scouring pad.	Mostly	Yes
Low maintenance	Yes	Yes, but clean up spills immediately and reseal once every two years. Lighter-colored granites, which are more porous, may require additional maintenance.	Yes
Uses	Residential and Commercial	Residential and Commercial	Residential, Commercial, Yachts
Colors	Available in 100 different colors	Various - mainly variations of black, brown, white and copper	Available in PURE White and PURE Black
Hygienic (germ/bacteria/mold resistant)	Yes	Yes	Yes
Pliable	Yes, at 325 degrees Fahrenheit / 160 degree Celsius	No	Yes
Sizes available	¼”, ½” and ¾” tiles	Big slabs	- Thickness 12, 15, 18 and 30 mm - (31/64” , 19/32”, 23/32”,1” 1 /4) - Customized tiles - Big slabs up to 3060 x 1640 mm (10’ 15/32”x 5’ 4” 9/16”) Any custom dimensions as request
Advantages	Non-porous, stain-free, pliable, available in different colors, bacteria-free	Hard, durable, natural, elegant, easy to maintain.	Non-porous, stain-free, pliable, bacteria-free, hard, durable, natural, elegant, easy to maintain.

COMPARISON with NEOPARIES

1. Dimensional Limits

Thesearethedimensionsin which Neopariés is produced:

Shape	Size（mm）	Color	Remarks
Flat Panel	900 × 900 900 × 1,200 900 × 1800 1,200 × 2,400	Standard Pigment White White	
Curved Panel	200R 250R	Standard （except Black）	Max. central angle 90 deg. （1/4 circle） Convexonly
	300R	Standard	
	350R 400R 450R 500R 550R 600R 650R	Pigment	Max.centralangle 90 deg. （1/4circle） [Note:Convex only on 650R] Convex, Concave
	700R～4,000R		Convex, Concave
Curved Corner Panel	150R×90°（1/4 circle）×H900 150R×90°（1/4 circle）×H1,200	Standard （except Black）	Convex

>> STONEGLASS® can reach dimensions of mm 3060x1640 and it is treated as a glass upon any request by our clients. We don't have any imposed standards.

2. Thicknesses Limits

Neopariés itisproducedin the thicknesses of mm 10, 15 and 21, where only the mm 15 is a standard, while all the other thicknesses are available only upon customer request. Version mm 10 and 15 have same cost, while mm 21 it is about 150% more expensive.

>> STONEGLASS® thicknesses are ALL STANDARD and can be mm 12, 18 and 30 and are always available and without any minimal order limit.

3. Characteristics Limits

Thesearethecharacteristicswith which Neopariés is sponsored:

Characteristics / Materials			Neopariés White	Marble	Granite	STONEGLASS®
Lighting	Alteration UV					- None -
Thermal	Thermal Expansion Coefficient	(x10^{6}/K)	6.1	7.0	7.0	1.21
	Thermal Conductivity	(W/m K)	1.6	2.3	2.1	1.38
	Dry heat resistance till 180°					- No Alteration -
Mechanical	Specific Gravity	(kg/ m m/m q)	2.7	2.7	2.7	2.5
	Bending/ Flexural Strength	(N/mm2)	41	11	14	42.3
	Breaking load	(N)				2168
	Fire classification					A1
	DCOF on Matt					0.59
	DCOF on Polished					0.51
	Mohs' Hardness		5.5	3	5.5	7
Chemical	Acid Resistance	(mg/cm2)	0.2	267	26.2	0
	Alkali Resistance	(mg/cm2)	0.7	7.8	2.6	0
	Seawater Resistance	(mg/cm2)	0.1	0.2	0.2	0
	Water Absorption Rate	(%)	0.0	0.3	0.4	0
	Freeze Resistance	(%)	0.0	0.2	0.3	0

>> STONEGLASS® has a TRUE and PURE White and Black that never changes in time and under any atmospherically condition. It will remain always the SAME White and SAME Black as you see at beginning of installation.

>>>> CONCLUSIONS >>>> STONEGLASS® is more functional as Neopariés in any condition, especially for Ventilated Facades. All our clients that were using Neopariés in the past and that have then tried STONEGLASS®, they all never went back using Neopariés again and are still our clients now.

COMPARISON with GLAZE JADE STONE

Glaze jade stone (crystallized glass, ceramic stone) - Product Features:

Jade spar series of products and other building materials comparison table

symbol: ◎ best ● good △ can be × bad

Performance (Characters)	Jade spar series (New Cristone)	Granite (Granite)	A metal plate (Metals)	Resin stone (Resin stone)	STONEGLASS®
Impact strength	◎	◎	×	×	◎
Hardness	◎	◎	△	×	◎
Wear resistance	◎	◎	△	△	◎
Water absorption	◎	×	◎	●	◎
Weatherability	◎	●	●	△	◎
Bending plate workability	●	△	●	●	◎
Acid and alkali resistance	◎	●	△	△	◎
Luster permanent retention	◎	◎	●	△	◎
Uniform color consistency	◎	△	◎	●	◎
Non-flammable	◎	◎	◎	×	◎
Easy to maintain	◎	△	●	×	◎

Glaze jade stone (crystallized glass, ceramic stone) - Product Features:

Jade spar series of products and other stone comparison table

Properties (Properties)	Spar (New Cristone)	Marble (Marble)	Granite (Granite)	STONEGLASS®
Specific gravity (g/cm3)	2.7	2.7	2.7	2.5
Bending strength (kg/cm2)	600	170	150	42.3 N/mm2 (as for TEST REPORT No. 324654)
Compressive strength (ton/cm2)	5	0.9-2.3	0.6-3.0	118 MPa (as for TEST REPORT No. 2024/10)
Instantaneous burst strength (kg X cm/cm2)	2.5	2.1	2.0	2168 N (as for TEST REPORT No. 325421)
Elasticity coefficient (X 105 · kg/cm2)	5.2	2.8-8.4	4.3-6.7	37.5 MPa (as for TEST REPORT No. 2052/10)
Hardness (Moh's)	4-6	3-5	5.5	7
Foot wear resistance	62-84	20-25	40-50	0-51 & 0.59 (as for TEST REPORT No. TCNA-483-16 & TCNA-808-15)

Properties (Properties)	Spar (New Cristone)	Marble (Marble)	Granite (Granite)	STONEGLASS
Specific heat (cal/g-50 degrees C)	0.19	0.19	0.19	0
Thermal expansion coefficient (X 10-7 / degree C · 30 ~ 380 degrees C)	80	80-260	50-150	1,21 x10-6/C° (as for TEST REPORT No. 2276/11)
Thermal Conductivity (kcal/nhr degrees C)	1.4	1.9-2.0	1.8-2.1	1.38
Water absorption (%)	0.0	0.3	0.3	0.0
Acid resistance (1% H2SO4) (%)	0.0	10.3	1.0	0.0
Alkali resistance (1% NaOH) (%)	0.0	0.3	0.1	0.0
Frozen resistance (%)	0.0	0.2	0.2	0.0

Note: This table is the average value of the material after many tests, for reference purposes only.

Material Comparison

Excelent | Good | Fair | Poor

Material	Scratch Resistance	Impact Resistance	Acid Resistance	Stain Resistance	Heat Resistance	Maintenance	Low Porosity Compactness
MICROGLASS	Excelent	Excelent	Excelent	Excelent	Excelent	Excelent	Excelent
Glass	Good	Poor	Excelent	Excelent	Fair	Excelent	Excelent
Engineered Stone Agglomerate	Excelent	Excelent	Good	Excelent	Good	Excelent	Excelent
Sintered Stone (matte finish)	Excelent	Poor	Excelent	Excelent	Excelent	Excelent	Excelent
Sintered Stone (polished finish)	Poor	Poor	Excelent	Excelent	Excelent	Excelent	Excelent
Natural Stone: granite, porphyry	Excelent	Good	Good	Good	Excelent	Good	Good
Natural Stone: marble travertine	Fair	Fair	Poor	Poor	Good	Poor	Poor
Solid Surface	Fair	Good	Excelent	Excelent	Good	Good	Excelent
Hpl	Good	Excelent	Good	Excelent	Good	Excelent	Excelent
Metal	Poor	Good	Excelent	Excelent	Excelent	Excelent	Excelent
Wood	Poor	Good	Poor	Fair	Fair	Fair	Poor