



NOVANITE

S O L I D S U R F A C E

Designs for your imagination

Distributed by:



Piedmont Plastics®
where solutions take shape

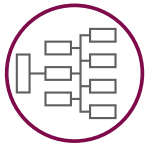
Toll Free: 1.800.277.7898

www.piedmontplastics.com



 **UNIGEL**

INTRODUCTION



Novanite® is an acrylic solid surface, manufactured in Mexico by Plastiglas de Mexico S.A. C.V.

It is a material with pleasant feeling to the touch. It is a synthetic mineral stone made with special resins based on methyl methacrylate and mineral fillers of alumina-ATH.

It is a highly hygienic product that doesn't absorb liquids and by the nature of its composition it is an anti-bacterial material since it doesn't allow the formation of fungal or bacterial growth.

Its attributes allow designers, architects, interior designers and all kinds of part manufacturers to create environments to enjoy and elegance to live.



APPLICATIONS



Because of its attributes, **Novanite®** can be considered in different applications and multiple market segments. We recommend usage of Novanite® indoors.

For applications outdoors or extreme, we can design a specific product to satisfy the needs and performance expected upon request.

The most common applications of **Novanite®** are:

- ◆ Counters at hotels, airports banks, convenience stores, transportation terminals, phone companies and fast-food restaurants.
- ◆ In laboratories, hospitals and clinics as covering walls.
- ◆ Furniture in hotels, stores, restaurants and bars.
- ◆ Sink and bathroom counters, shower bases and walls.
- ◆ Kitchen countertops.

Because of its versatility, Novanite®, can be used on unlimited applications with infinite designs.

BENEFITS



Novanite® is available in a range of colors and designs that capture your imagination to create and innovate lifestyles and trends in the interior design



Hygienic and aseptic

Anti-bacterial by nature, in humid environments or in contact with organic material Novanite® doesn't allow the formation fungi or bacteria neither the penetration of liquids that may stain the surface. Because of its attributes it is a product recommended for medical, hospital and laboratory applications.



Durable

Because of its totally solid and non-porous surface, Novanite® prevents maintenance or continuous repairs that translate into a long lifespan, giving value to your investment.



Aesthetic

Novanite® with its range of colors and grains, natural stone look, ease of fabrication, capacity to be formed with heat and possibility to be combined with materials such as acrylic, wood and metal, gives a sophisticated and elegant appearance to your creations.



Cleaning and ease of maintenance

Due to its compact and solid composition, Novanite® does not allow penetration of stains or dirt which makes its surface easy to be cleaned with water and cotton flannels even impregnated with commercial cleaning products.

When Novanite® slightly scratches it is easy to be repaired with cleaning powders and fibers. Solid colors can be simply polished with cloths impregnated of liquid wax or polishers emulsion based for furniture.



Impact Resistance

Novanite® presents up to 50% more resistance to impacts that other solid surfaces available in the market. This makes Novanite® a high performance material. Its Impact resistance levels are above other materials such as ceramic processed marble, natural marble and polyester resin based products.



Chemical Resistance

Novanite® has a high chemical resistance in its multiple applications which adds a differentiated durability factor to the properties of the material. Novanite® resists acids and low concentrations of alkaline compounds.

Its surface must beware to excessive exposure to aggressive organic solvents, acids and pure alkalis.



Heat Resistance

Novanite® is a product designed to withstand the temperature related to its applications however, its use is limited to extreme conditions.



Flame Retardant

Novanite's® composition retards flame spread which makes it to be a great alternative in construction, commercial, medical and residential applications. Its mineral content makes it suitable to extinguish the flame and release carbon non-toxic combustion gases in open environments.



Renewable

Because of the continuous use of the product, scratches or light spots may appear on the surface. These can be removed quite easily using abrasive products like sandpaper and polishing procedures.



Inert

Novanite® is an inert, non-toxic and non-chemically reactive material to common chemical products under normal conditions of use. It is also a reliable product for use in applications where hygiene is important.



Ease of Fabrication

Novanite® is processed as easy as wood without requiring expensive or specialized equipment. The product can be processed even with manual tools.

Some common fabrication processes associated to Novanite® are:

Cutting with radial saws and manual saws with circular disks of carbide tungsten.

Routing or manual milling with bits or carbide tungsten profilers.

Cutting with CNC of 3 to 6 axes with tooling for carbide tungsten.

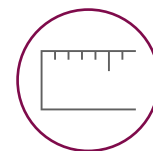
Cementing with compatible adhesives made in the color of the sheet. These adhesives are made from a two-component system that allows seamless joints.

Grinding and polishing of surfaces with acrylic solid surfaces abrasive systems.

Thermoforming for curves and surprising parts using heating systems by radiation, convection, and infrared light.



PRODUCT RANGE



Thickness	Sizes	
	48"x96"	30"x96"
0.472"	Yes	Yes
0.236"	Yes	Yes

*0.236 available upon request
Minimum batches per product may apply.

COLORS



Novanite is offered in a range of different colors and granites as per the following classification:

STANDARD COLORS



NV-100 WHITE



NV-101 IVORY

Translucent colors



**NV-099 ULTRA
WHITE ICEBERG**



NV-104 RUBY RED



NV-107 PEARL



NV-116 MAGENTA



NV-118 NAVY GREY



NV-119 CRETE



NV-120 MUSTARD



NV-121 KIWI



NV-122 SALMON



NV-123 JACARANDA



NV-124 LIME



**NV-402
SPARKLE BLACK**

SPECIAL GRANITES



NV-300 CARIBBEAN



NV-305 SNOW WHITE



NV-308 PYRENEES

STANDARD GRANITES



NV-200 JADE



NV-201 SPRING



NV-304 MINERAL GRAY



NV-203 TOBACCO



NV-205 QUARTZ



NV-207 COBALT



NV-302 CANCUN



NV-306 CONFETTI

PHYSICAL, CHEMICAL AND MECHANICAL PROPERTIES



PROPERTY	TYPICAL VALUE	TYPICAL VALUE	REFERENCE NORM
-Density (gr/cm3)	1.66	1.64	ASTM-D-792
-Tensile strength (Kpsi)	4.36	4.29	ASTM-D-638
-Max Elongation (%)	1.42	1.45	ASTM-D-638
-Tensile module (Kpsi)	7757	6970	ASTM-D-638
-Bend strength (Kpsi)	7.26	7.3	ASTM-D-790
-Max elongation in bending (%)	1.42	1.49	ASTM-D-790
-Bending module (Mpa)	4954	4744	ASTM-D-790
-Rockwell Hardness	86	85	ASTM-D-785
-Barcol Hardness	58	58	ASTM-D-2583
-Stain resistance	x	x	ISSFA-SST-3.1.0 (NEMA-LD-3-3.4)
-Surface hot water resistance	x	x	ISSFA-SST-8.1-00 (NEMA-LD-3-3.5)
-High temperature resistance	x	x	ISSFA-SST-9.1-00 (NEMA-LD-3-3.6)
-Izod impact (lb-ft/in)	0.228	0.228	ASTM-D-256
-Impact Resistance	x	35	ISSFA-S-ST 6.1-00 (ANSI-Z124)
-Gardner impact (lb-in) Total fracture reference 0.236" thickness	43	x	ASTM-D-3029
-Cigarret burn resistance	x	x	ANSI-Z124

PACKAGING



All Novanite sheets are supplied with no superficial protection. If the customer requires it, we can offer film protection in one side.

ADDITIONAL SERVICES



Plastiglas de Mexico offers color matching upon request. For this case minimum batches and color match fee will apply. Please review minimum production batch for custom colors with our Customer Service Department.

TECHNICAL SUPPORT



Plastiglas de México offers technical support to assist customers in setting the proper processing conditions for optimizing Novanite® sheet performance.

LIMITED WARRANTY



Plastiglas de Mexico warrants its NOVANITE® cell cast acrylic sheets against any origin manufacture defect. Warrant covers properties and characteristics expressed on the catalogs of product. This is a limited warranty only for the NOVANITE® cell cast acrylic sheets. No transformation or installation jobs are considered on it.

This limited warranty does not consider any fault or damage during sheet transformation or installation. Customer should follow the technical recommendations for processing NOVANITE® cell cast acrylic sheets.

This limited warranty does not consider any damage caused for the excessive heat exposure and or any non recommended chemical agents used for cleaning and maintenance. Customer should see the Plastiglas de Mexico's recommended maintenance methods.

Plastiglas de Mexico has no liability under any circumstance for the cost of removal of defective sheet or the installation of replacement sheet or for indirect incidental or consequential damage.

In order to make a claim under the foregoing warranty, please contact Plastiglas de México or one of our representatives. You will be required to show a representative evidence of the problem and provide a purchase order number and or information regarding batch number printed on the label of the acrylic sheet.



Distributed by:



Piedmont Plastics[®]
where solutions take shape

Toll Free: 1.800.277.7898

www.piedmontplastics.com