

STUDIO  
COLLECTION®

transparently  
handcrafted for you

2021  
EUROPE

ENGLISH





AT ARISTECH SURFACES,  
WE MAKE ALL THE  
STUDIO Collection®  
PRODUCTS AT OUR  
WORKSHOP IN THE  
UNITED STATES.

OUR STUDIO Collection®  
MATERIAL IS A COMPOSITE  
THERMOSET RESIN THAT  
COMBINES ACRYLIC WITH  
A REVAMPED POLYESTER  
RESIN. OUR GOAL IS TO  
MELD THE ADVANTAGES  
OF THESE TWO  
TYPES OF POLYMERS:  
DEEP TRANSLUCENCY AND  
SATISFACTORY SOLIDITY.

## patterns

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**THE FOCUS OF THE  
STUDIO Collection® IS  
ON DESIGN.**

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Thanks to the veined or terrazzo looks, movement and textures that we create in the material, the STUDIO Collection® produces astonishing visual effects, both on the surface and deep down inside.

## translucency

Unlike Acrylic Solid Surface, with which it is often compared, the foundations of the STUDIO Collection® were built on translucency. What's our secret? An evolved version of premium quality unsaturated polyester. Our work begins with converting and colouring the polyester, and then blending it with acrylic.

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**THIS PROCESS IS  
WHAT ALLOWS US TO  
PRODUCE MATERIAL  
OF INCOMPARABLE  
CLARITY.**

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## handcrafted production

We produce the STUDIO Collection® in our workshop, making it an unparalleled material. From the incorporation of petals or stone particles into the resin to the veining that runs through it, we design all our patterns by hand.

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**EACH PIECE IS UNIQUE.**

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1



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3





## STUDIO Collection®: where does it come from?

OUR WORKSHOP IS A HUMAN SCALE  
PRODUCTION SITE WHICH UTILIZES  
BOTH TECHNOLOGY AND MANUAL  
FABRICATION METHODS.

All raw materials are subject to a stringent inspection to assure quality and consistency. Nearly all added products are produced in house to maintain quality and flexibility.

Once the polyester resin is blended and its performance in terms of mechanical resistance and translucency are tested, the resin is ready to become STUDIO Collection®.

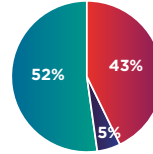
- 1** After dispensing a controlled amount of resin into moulds, we disperse the particles, shavings or petals in the mixture.
- 2** We spread them out to achieve a surface with an even translucency and pattern.  
The panel then is cured in an autoclave to remove porosity and cure the sheet evenly.
- 3** Lastly, we remove the cured sheet and transfer the material to a workbench, where we inspect the sheets, one by one, for colour consistency, accurate thicknesses and a flat surface.

## our STUDIO Collection<sup>®</sup> resin ranges

Our designer STUDIO Collection<sup>®</sup> resin is available in three ranges:

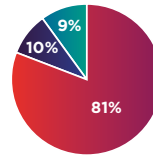
**Class I** is very similar to Acrylic Solid Surface but enriched with a load of polyester to boost its translucency and enable the incorporation of ample particles.

### CLASS I



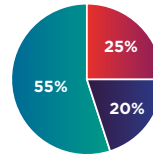
**Class III** is both highly translucent and matte in appearance. Its 12-millimetre thickness creates visual depth and inimitable three-dimensional movement.

### CLASS III



Lastly, our **range of recycled colours** is similar in appearance and performance to Class I, except that it is made of 50 to 60% recycled Acrylic Solid Surface. As a result, these colours in a building can help it to obtain LEED credits.

### RECYCLED RANGE



- Polyester / Styrene
- Acrylic
- Alumina Trihydrate



## HOW TO CHOOSE THE RIGHT RANGE

YOU ARE LOOKING FOR :	TRANSLUCENCY	THICK PARTICLES	THERMO- FORMING	FIRE RESISTANCE	MECHANICAL RESISTANCE	A MATERIAL THAT HIDES SCRATCHES
CLASS I	++	+++	+	++	++	-
			Min. radius: 355 mm	ASTM E84 Class A or B	Barcol: 53 Bead impact: 244 cm Tensile resistance: 22.8 MPa	
CLASS III	+++	+++	++	-	+	+
			Min. radius: 203 mm	ASTM E84 Class C	Barcol: 48 Bead impact: 138 cm Tensile resistance: 15.9 MPa	
RECYCLED RANGE	++	+++	++	++	++	-
			Min. radius: 203 mm	ASTM E84 Class A or B	Barcol: 53 Bead impact: 244 cm Tensile resistance: 22.8 MPa	
ACRYLIC SOLID SURFACE	+	-	+++	++	+++	-
			Min. radius: 152 mm	ASTM E84 Class A or B	Barcol: 55-63 Bead impact: 215-380 cm Tensile resistance: 25-31 MPa	



## the REAL STORY of Polyester

Invented in 1941 by British chemists John Rex Whinfield and James Tennant Dickson, unsaturated polyester (UP) quickly became the most commonly used resin for the production of composite materials.

**THIS LIGHTWEIGHT POLYMER IS RESISTANT TO MANY DIFFERENT CHEMICALS AND ALSO HAS VERY LOW ABSORBENCY,**

which soon made it an ally for environments that demand impeccable hygiene.

Beginning in the 1970's, its massive use in an economic climate that was favourable to the development of low-cost products led to a decline in attention to the quality of finished goods. The stigmas from that time continue to haunt polyester today, although some modern polyesters are very different indeed from the material of the past.

**WE HAVE CONSIDERABLY IMPROVED ITS QUALITY, ESPECIALLY ITS AESTHETICS, ITS SOLIDITY AND ITS FEEL,**

so that our STUDIO Collection® composite resin now fits perfectly into any **luxurious décor**. In particular, including it in areas with little exposure, such as **display cases, partitions and vertical cladding** is a great way to take full advantage of the delicate aesthetics of this underappreciated material.



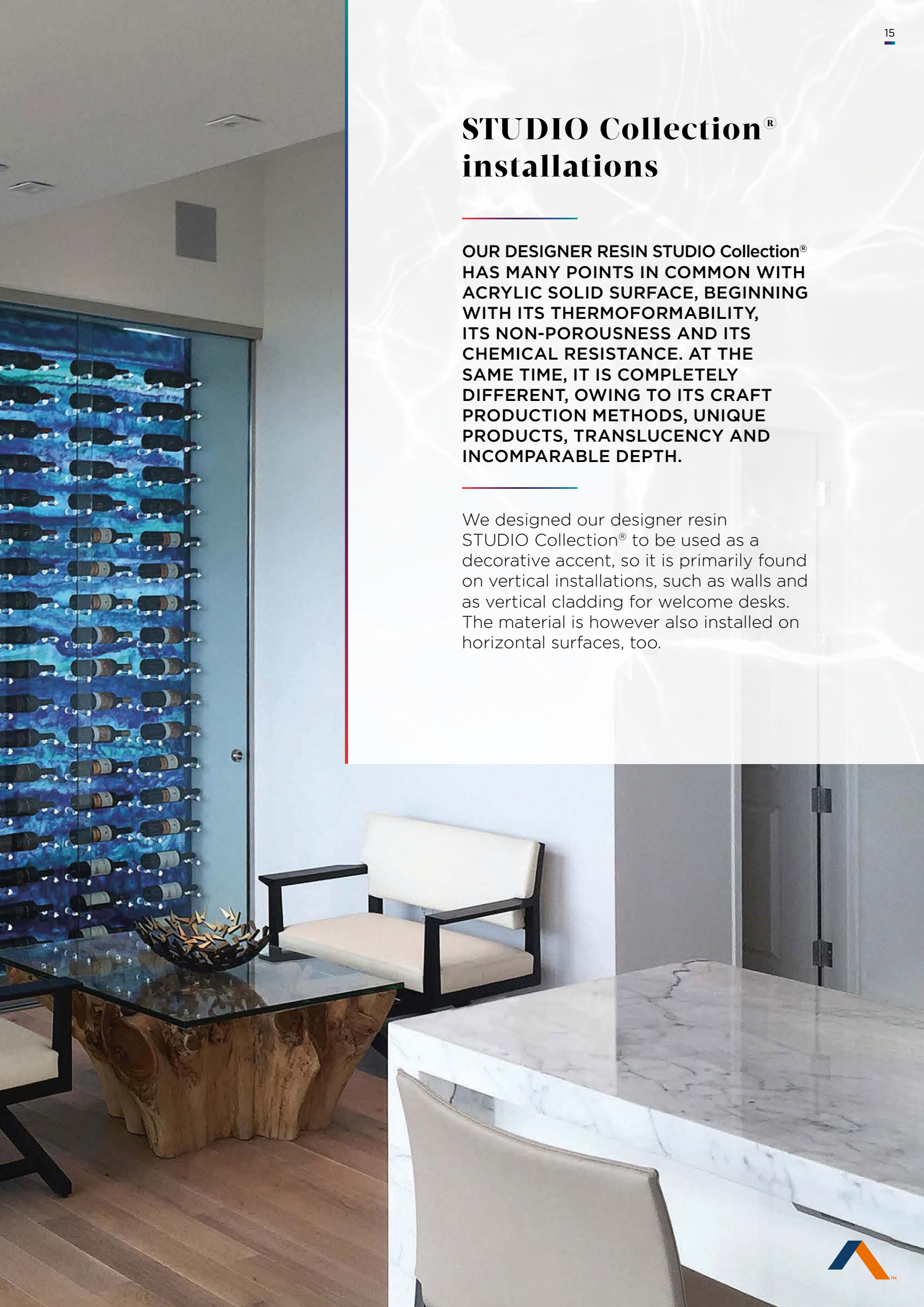
**TIPS**

Like any translucent material, the seams must be handled with care so as to minimize their visibility.

## STUDIO Collection® installations

OUR DESIGNER RESIN STUDIO Collection® HAS MANY POINTS IN COMMON WITH ACRYLIC SOLID SURFACE, BEGINNING WITH ITS THERMOFORMABILITY, ITS NON-POROUSNESS AND ITS CHEMICAL RESISTANCE. AT THE SAME TIME, IT IS COMPLETELY DIFFERENT, OWING TO ITS CRAFT PRODUCTION METHODS, UNIQUE PRODUCTS, TRANSLUCENCY AND INCOMPARABLE DEPTH.

We designed our designer resin STUDIO Collection® to be used as a decorative accent, so it is primarily found on vertical installations, such as walls and as vertical cladding for welcome desks. The material is however also installed on horizontal surfaces, too.



## durability

The STUDIO Collection® is resistant to common household products and is easy to repair, thanks to servicing provided by one of our local partners.

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**WITH OUR 15-YEAR  
WARRANTY, WE WILL  
NOT LET YOU DOWN  
AFTER YOUR PROJECT  
IS COMPLETED.**

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## our environmental commitment

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**THE STUDIO Collection® OFFERS THREE COLOURS WITH 50 TO 60% PRE-CONSUMER RECYCLED CONTENT.**

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Because our materials comply with the strictest standards for internal air quality, the STUDIO Collection® has also been honoured with the Advantage Gold certificate from SCS Global Services.

And that's not all! At Aristech Surfaces LLC, we unrelentingly fight to improve our environmental and energy efficiency, as well as air quality, and to reduce the waste sent to landfills, by using performance indicators which we measure and analyse.

Our recent and future environmental initiatives include converting the lighting at our plants and offices to LED, recycling our industrial and office waste, improving the motorization of our machinery, filtering our industrial water, and installing recycling systems and thermal oxidation units which provide for heat recovery in order to reduce VOC emissions.

Finally, Aristech Surfaces LLC transport partner for Europe guarantees recycling of waste water, uses solar energy in the warehouse and trucks that run on gas.

## our colours

The STUDIO Collection® also represents a series of 29 colours divided between eight ranges of textures and two price groups.

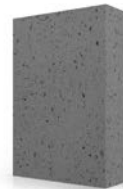
From the metallic look of Copper Canyon to the terrazzo effect of Kaleidoscope, by way of the disconcerting movement of Honey Onyx and the mineral appearance of Calacatta Stone, the STUDIO Collection® offers a virtually unlimited variety of effects.

### PRICE GROUP A

#### CRYSTELLES CLASS III



8575 Cozumel



8425 Cement



8586 Luna



1050 Midnight Sky



8587 Terra

#### ELEMENT CLASS III



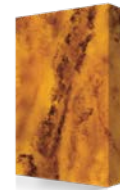
8760 Transcendent



8770 Ebony Twist



8700 Ocean Breeze



8750 Honey Onyx

#### GLASS CLASS III



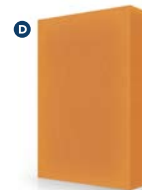
8455 Antique Glass



8465 Sky Glass



8485 Cobalt Glass



8560 Amber Glass

CHROMATIX

### PRICE GROUP B

#### PETALS CLASS III



8608 Cirrus II



8600 Sirocco



8609 Whimsy

CHROMATIX

NEW

PRICE GROUP S<sup>1</sup>

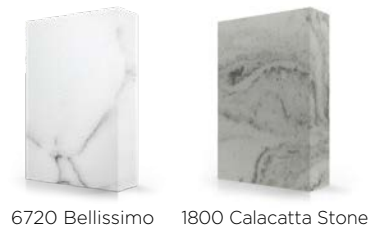
## RECYCLED



6600 Cottonwood

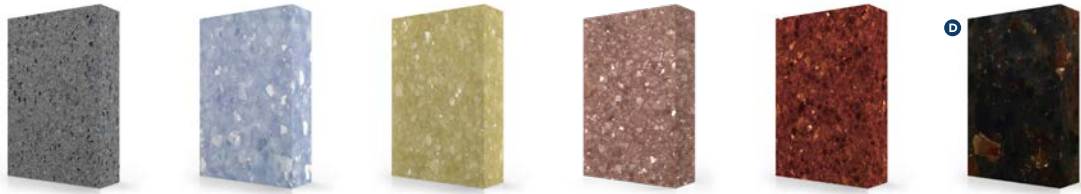
6636 White Sands

NEW

PRICE GROUP S<sup>2</sup>VENATO  
CLASS I

6720 Bellissimo

1800 Calacatta Stone

METALLIC  
CLASS III

8585 Silver Comet

8346 Celestial Pearl

8330 Cat Eye

8340 Tusk

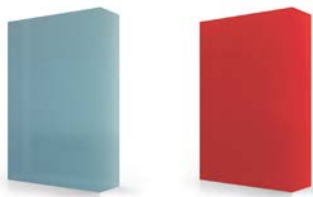
8320 New Caldron

8570 Copper Canyon

## RECYCLED



8200 Kaleidoscope

SEA GLASS  
CLASS III

8840 Pure Aqua

8810 Grenadine

CHROMATIX™

Our STUDIO Collection® sheets are available in the following nominal dimensions:  
**12 mm x 914 mm x 3048 mm**

The tones shown on this double-page spread may differ slightly from the actual colours. To be safe, please make your choice based on samples.

Ⓛ These colours, with their strong pigmentation, are more likely to show scratches, dust, irregularities and the usual signs of wear and tear than light colours. As a result, we do not recommend these colours for residential or commercial use, where the material would be subjected to intensive use. Our warranty does not cover these colours for scratches or ordinary signs of wear and tear.

♻ Recycled Content

This acronym indicates colours which fall into the category of materials containing at least 40% recycled material and which can therefore help to obtain credits as part of a building's LEED certification.





# CHROMATIX™

## how does it work?

Thanks to our handcraft fabrication process, we can produce series of STUDIO Collection® sheets in very small quantities\*, in the colour of your choice and with no price increase over our standard panels.

- 1 SELECT YOUR PATTERN.**  
Select a pattern from the Petals, Sea Glass or Glass ranges.
- 2 CHOOSE YOUR COLOUR.**  
Choose a Pantone® colour code.
- 3 REQUEST FREE SAMPLES.**  
Receive up to two free repeat samples to help you make your choice.

\*Minimum order quantity: six sheets. This programme is available for patterns in the Glass, Sea Glass and Petals ranges. Shipping charges will apply. Plan for four to five weeks for production and six to seven weeks for transport by sea.



# physical properties

PROPERTY	UNITS	CLASS III	CLASS I / RECYCLED	TEST METHOD
<b>GENERAL</b>				
Nominal Thickness	mm	12	12	
Density	g/cm <sup>3</sup>	1.3	1.6	ASTM D-792
Water Absorption (24hrs)	%	0.04	0.05	ASTM D-570
<b>MECHANICAL</b>				
Tensile Strength	MPa	15.9	22.8	ASTM D-638
Tensile Modulus	MPa	4550	7165	ASTM D-638
Tensile Elongation	%	0.34	0.65	ASTM D-638
Flexural Strength	MPa	28.3	38.4	ASTM D-790
Flexural Modulus	MPa	4515	6730	ASTM D-790
Barcol Hardness	-	48	53	ASTM D-2583
Rockwell Hardness (m scale)	-	104	98	ASTM D-785
Charpy Impact	J/m	26.7	37.4	ASTM D-6110
Ball Impact (227 g. ball, no failure) supported	cm	> 380	> 380	NEMA LD3-3.8
Ball Impact (227 g. ball, no failure) unsupported	cm	138	244	NEMA LD3-3.8
<b>THERMAL</b>				
DTUL @ 1.82 MPa	°C	72	77	ASTM D-648
Coefficient of Thermal Expansion	in/in/°C	5.2 x 10 <sup>-5</sup>	3.8 x 10 <sup>-5</sup>	ASTM D-696
Boiling Water Resistance	-	No effect	No effect	ISSFA 2-01
High Temperature Resistance	-	No effect	No effect	ISSFA 2-01
Flame Spread index	-	Class C	Class A	ASTM E 84
Smoke Generation index	-	> 450*	155	ASTM E 84
Combustion Toxicity	-	19.3	62.3	Pittsburg Protocol
Total Volatile Organic Compound	µg/m <sup>2</sup> /hr	13.9	3.9	ASTM D-5116
<b>SURFACE</b>				
Consistency of colour (same sheet)	-	Passes	Passes	ISSFA 2-01
Light Resistance	-	No effect	No effect	ISSFA 2-01
Cleanability / Stain Resistance	-	Passes	Passes	NEMA LD3-3.4
Stain Resistance	-	Passes	Passes	ANZI/ICPA SS-1
Bacterial Resistance	-	No growth	No growth	ASTM G-22
Fungi Resistance	-	No growth	No growth	ASTM G-21
Food Zone Use	-	Approved	Approved	NSF - 51

\*Accepted as having interior finish usage, Class C, per New York City Admin Code 27-131; MEA 142-M



The Polish Lounge. Photo: Studiocloudyaz.



**NEW COLOURS, TRENDS AND EVENTS...  
JOIN OUR COMMUNITY AND  
DISCOVER NEW AND INSPIRING  
IDEAS EACH WEEK.**



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