



TRINSEO™

AVONITE™

# Acrylic Solid Surface

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2024 Global | English

Connecting ideas with solutions

[aristechsurfaces.com](https://aristechsurfaces.com) [trinseo.com](https://trinseo.com)



# AVONITE™

The solution to  
accomplish your  
boldest projects

- Bacteriostatic
- Class A Fire Rating
- Easily Maintained
- Formable
- Non Porous (Mold Free)
- Durable
- Homogenous
- Repairable



- **Renewable**
- **Reusable**
- **Mineral Derivative**
- **Weather & UV resistant**

*AVONITE™ is a solid surface material composed of 63% alumina trihydrate, 35% acrylic and 2% pigments and binders. It is produced at the Trinseo plant, in Florence (KY), USA, one of the most flexible and scalable production lines in the world. Trinseo relies on its experience and expertise to supply a reliable Solid Surface material.*





VANCOUVER HOUSE, British Columbia, Canada  
Photos: Ema Peter Photography  
Fabrication: Westbank  
AVONITE™ Polaris 8256

# RIGHT SIZE Program

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## **Optimal Yield Sheet Sizes**

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Trinseo's RIGHT SIZE program for AVONITE™ Solid Surface provides the ultimate in flexibility, saving time and labor costs.

**More details page 12**

# Our Commitment to Ecology

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We see sustainability as more than just offering products with recycled content and regulatory compliance. It means having a responsibility to touch and improve lives by making a positive impact on others, now and for the future.

**More details page 14**

# One of the Most Advanced Production Technologies

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The ability of our continuous cast production lines to create a multi-stage system, incorporating controlled heating, cooling and tempering – all within one press – enables the development of flexible and efficient solutions.



*Our office in Florence, Kentucky was built in 1998. We used AVONITE™ for the façade of our new building. Covered almost entirely in 0.25 in./6 mm thick AVONITE™ Acrylic Solid Surface, the building remains a testament to the beauty and durability of our product.*

## Façade

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The RIGHT SIZE program offers a competitive product portfolio that is perfectly suited to the creation of exterior façades.

For outdoor use, we recommend several colors of AVONITE™ Solid Surface that are UV and weather resistant.



CASA-VOYAGEURS TRAIN STATION, Casablanca, Morocco, 2019

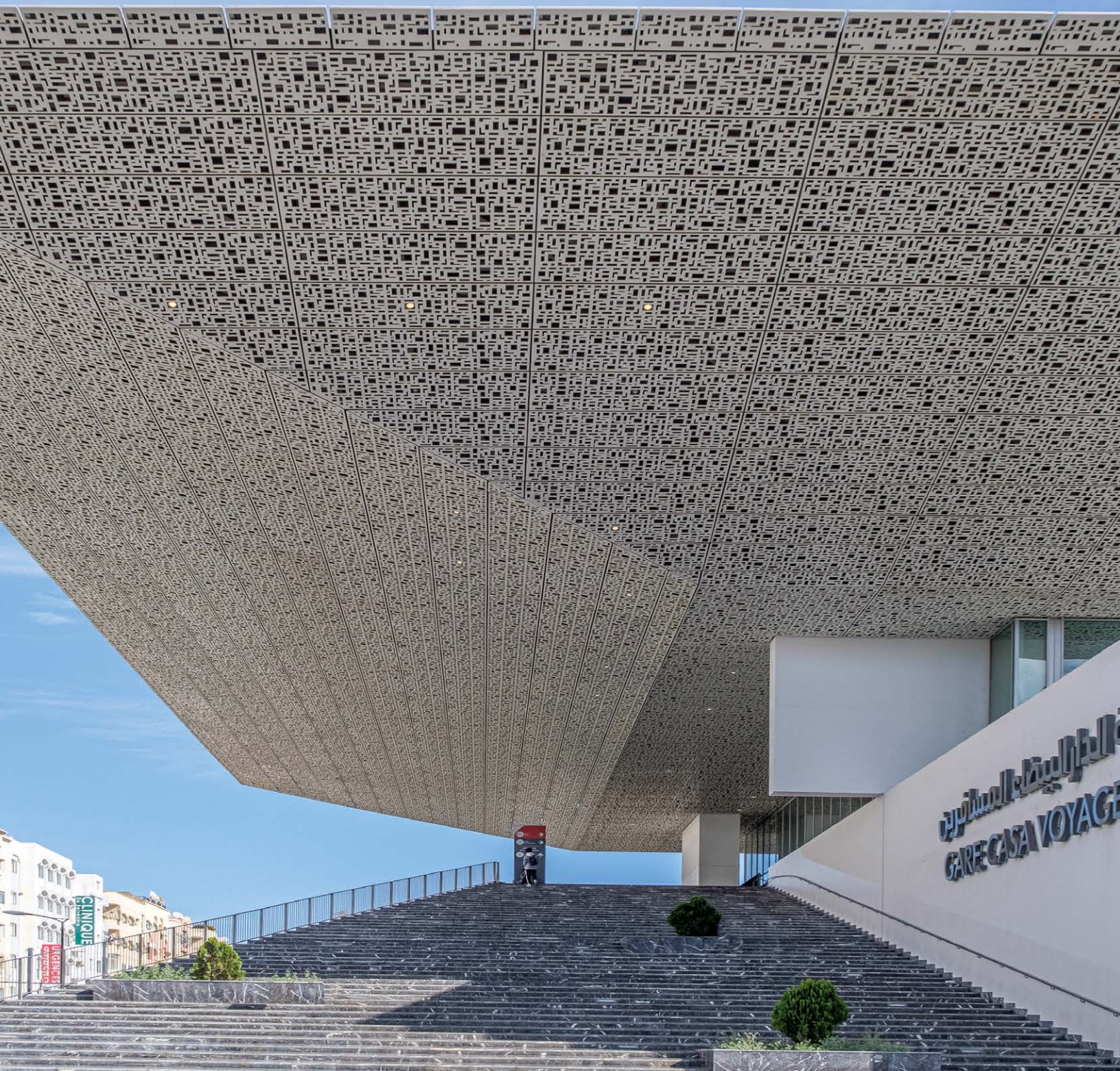
Architecture: Yassir Khalil Studio

Fabrication: Aeria 2

Photo: alessiomei.com

AVONITE™ Snowfall 8090, 9 mm custom size sheet

With over 25 000 sq. metres of Solid Surface, the new Casablanca train station is currently one of the industry's biggest construction sites in the world. Fully entrusted to AVONITE™, this project involves cladding the building's entire roof, façade and ceiling.







*Location: Freiberg  
Photographer: Albrecht Holl%onder  
Fabricator: Rosskopf + Partner AG  
Architect: ATELIER n.4, Flöha  
Material : AVONITE™  
Color: Eclipse 8240, Polaris 8256*



## Architectural

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AVONITE™ IS ABSOLUTELY VERSATILE.

It can be found on both the countertops and walls of ultra-clean labs and the overworked reception desks at hotels.

THAT'S NOT ALL.

AVONITE™ is also used to produce flawless furniture for shops and museums.





## **Hygienic**

The material's non-porous properties and the seamless assembly of furniture made of AVONITE™ makes it extremely easy to clean. Its thermoforming capacity also allows for the creation of rounded backsplashes on lab benches, kitchen counters and restaurant furniture, which eliminates those hard to reach places.

## **Durable**

AVONITE™ is resistant to common household products and is easy to repair, thanks to the after sale servicing by one of our local partners. With its 15-year warranty on 12, 9 and 6 mm thicknesses and 10 year warranty on the 3 mm thickness, AVONITE™ will not fail you after your project is complete.



# A Wide Range of Applications

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*TELUS SKY, Calgary, Canada*  
*Photographer: Ema Peter Photography*  
*Fabricator: Heavy Industries, Walsh Plastics*  
*Architect: Bjarke Ingels Group & Dialog*  
*Developer: Westbank Developments*  
*AVONITE™ - 9 mm and 12 mm, Polaris 8256*

[en.wikipedia.org/wiki/Telus\\_Sky](https://en.wikipedia.org/wiki/Telus_Sky)  
[telussky.com](http://telussky.com)

- Counters and backsplash
- Vanity tops
- Shower walls and bases
- Furniture
- Interior cladding
- Façade





## ADVANC3™

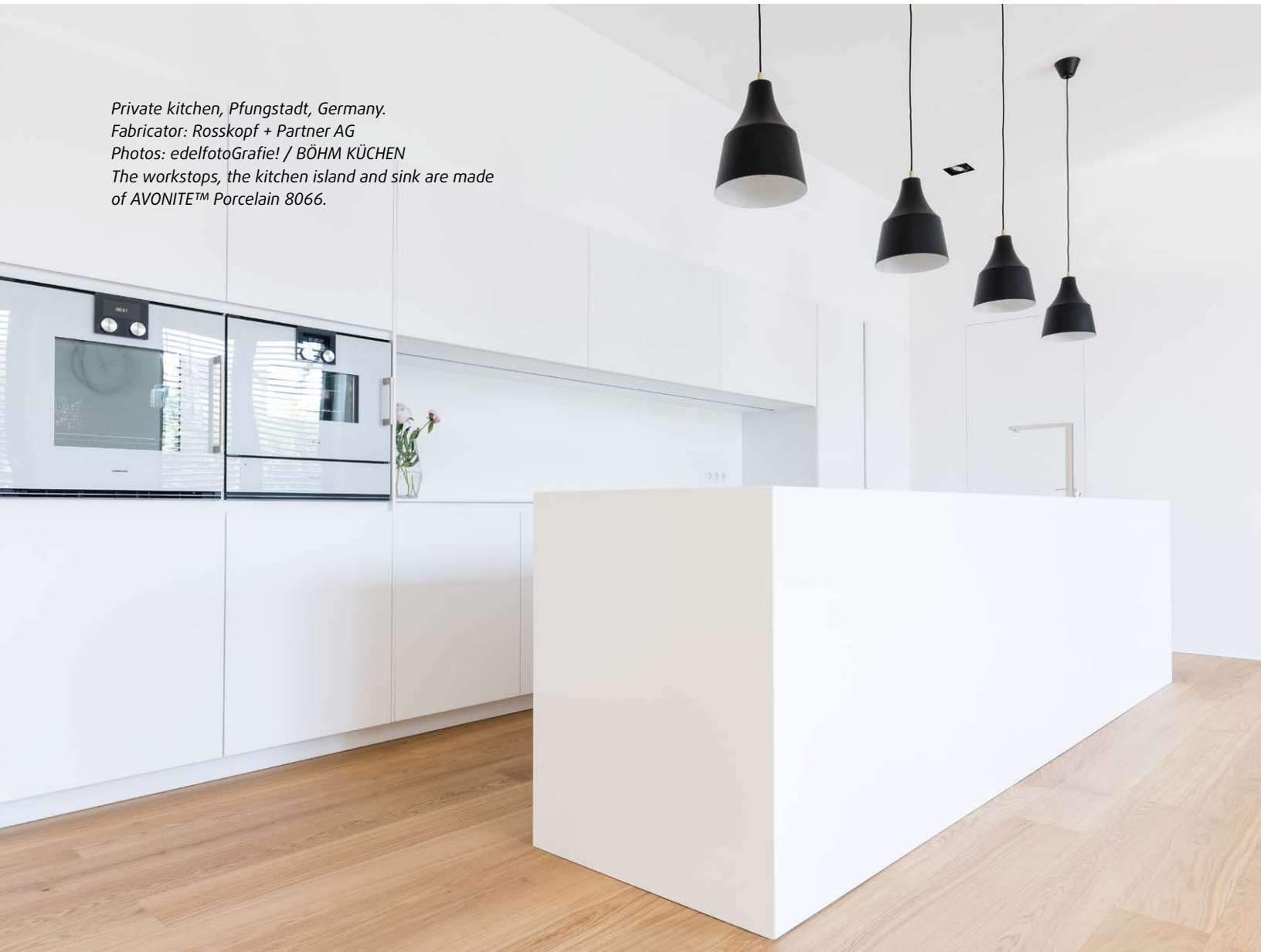
With its sheets just 3 mm thick, AVONITE™ ADVANC3™ offers the properties and aesthetics of solid surface at reduced prices. It is a renewable hygienic surface that is great for hospital applications, modern furnishings, retail displays, and as a perfect substitute for high-pressure laminate. ADVANC3™ can only be used on installations with no heat source or water in proximity. Width options include 48 in. (122 cm) and 60 in. (152 cm) wide in a 96 in. (244 cm) length.

### MADE TO ORDER COLORS:

- SUPER WHITE 8025
- WHITE 8017
- FOAM 8020
- SNOWFALL 8091

An excellent alternative to High Pressure Laminate, with all the benefits of solid surface. ADVANC3™ 3 mm is available in additional colors and custom sizes with minimum order quantities. Contact your representative for details.

*Private kitchen, Pfungstadt, Germany.  
Fabricator: Roskopf + Partner AG  
Photos: edelfotoGrafie! / BÖHM KÜCHEN  
The workstops, the kitchen island and sink are made  
of AVONITE™ Porcelain 8066.*



# AVONITE™

## RIGHT SIZE

### Program

#### Ultimate Flexibility

From the simplest format to the most unusual designs, AVONITE™ Solid Surface offers you an infinitely wide array of options to meet your project needs.

#### Personalized Sizing

With the RIGHT SIZE program, the choice is yours. We manufacture AVONITE™ directly to whatever width, length, thickness and color you choose.

- WIDTHS from 27 in. (685 mm) up to 60 in. (1524 mm)
- LENGTHS from 84 in. (2133 mm) up to 204 in. (5182 mm)
- CALIPER THICKNESS from 3 mm up to 19 mm
- Color and aesthetic, we'll work directly with your designer to bring their vision to life.

#### Saves Time

The use of large sheets reduces the number of seams required. Fewer seams mean less adhesive, less fabrication and simply put, less cost.

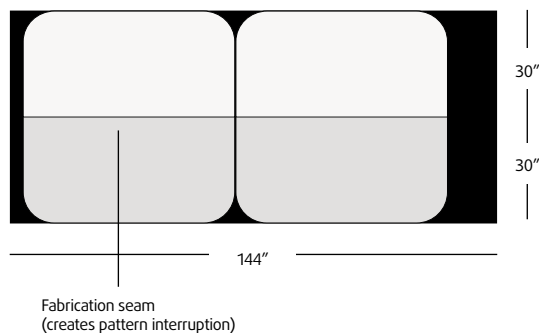
#### Sustainable Choice

The choice of an optimal format reduces scrap. Less scrap means less landfill, taking a step to help the environment.

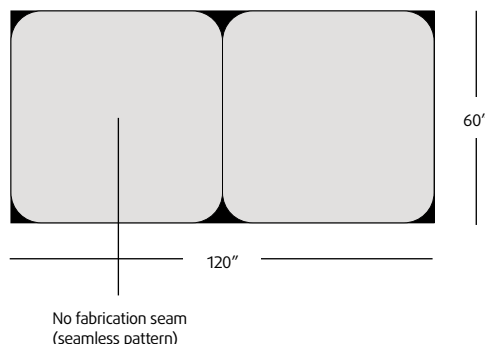
Reach out to your Regional Manager today, to discuss Minimum Order Quantities based on your project needs.

**LENGTH, WIDTH, THICKNESS, COLOR... You decide.**  
The ultimate in flexibility for our customers.

#### Traditional Sheet Size



#### AVONITE™ RIGHT SIZE Sheet







**2 134 x 686 mm**

84 x 27 in.  
minimum dimensions

#### Thickness

3 mm / 0,12 in

6 mm / 0,24 in

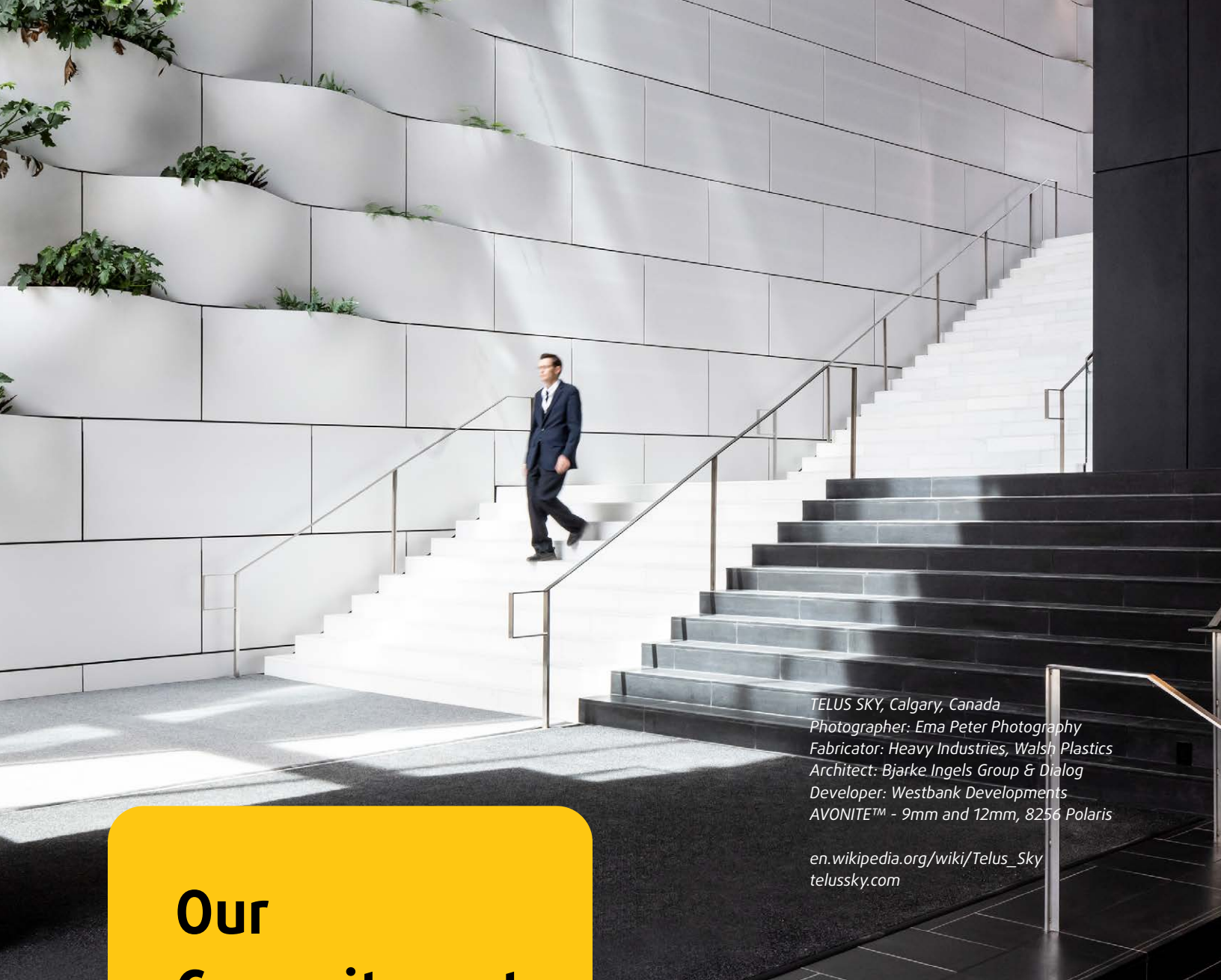
9 mm / 0,35 in

12 mm / 0,47 in

19 mm / 0,75 in

**5 182 x 1524 mm**

204 x 60 in.  
Sheets' maximum dimensions



TELUS SKY, Calgary, Canada  
Photographer: Ema Peter Photography  
Fabricator: Heavy Industries, Walsh Plastics  
Architect: Bjarke Ingels Group & Dialog  
Developer: Westbank Developments  
AVONITE™ - 9mm and 12mm, 8256 Polaris

[en.wikipedia.org/wiki/Telus\\_Sky](https://en.wikipedia.org/wiki/Telus_Sky)  
[telusky.com](http://telusky.com)

# Our Commitment to Ecology

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**We see sustainability as more than just offering products with recycled content and regulatory compliance – it means having a responsibility to touch and improve lives by making a positive impact on others, now and for the future.**

## Reuse and Recycle

At Trinseo, we continually strive to improve our energy and water efficiency, landfill diversion, and air quality, using performance metrics we measure and report. Recent and ongoing environmental initiatives, proactive recycling of office and industrial materials, high-efficiency motor upgrades to machine drives, industrial water filtration and recycling systems and thermal oxidizing units with heat recovery to reduce VOC emissions. Finally, Trinseo transport partner for Europe guarantees recycling of waste water, uses solar energy in the warehouse and trucks that run on gas.



## Indoor Environmental Quality

AVONITE™ has been awarded Indoor Advantage Gold by SCS Global Services and earned a score of A+ for the material's adherence to French regulations governing the emission of volatile organic compounds.

## Reducing Waste

The RIGHT SIZE program is another key component of our approach to sustainable design. Choosing the optimal sheet size format for your project reduces material square footage and also reduces or eliminates landfill.

## Energy Conservation

Historically, it's not a coincidence if we chose to work with a double-belt continuous cast technology. Equipped with a symmetric heating and cooling system, solvent free and allowing to reduce the waste to the lowest level, this manufacturing technique is one of the eco-friendliest. Our Florence, Kentucky site was re-lamped with LED technology, significantly reducing electrical consumption.

## Transparency and Disclosure

Expectations of transparency about the environmental and health impacts of building products are high in the green building market. Designers, specifiers and building owners want to know exactly what they are utilizing, encouraging the specification of products with documented declaration of contents and impacts. Trinseo provides transparency documentation through EPDs, HPDs, and one Declare Labels.

## Health & Safety

AVONITE™ Solid Surface is Living Building Challenge Red List Free, containing none of the 800+ hazardous chemicals found in some building products. Using our silica-free solid surface material, means no risk of silica exposure during fabrication or installation.

## Highlight



Honey Crunch  
4330



Coastline  
4310



### Certifications :



# Our Color Selection

From the simple elegance of Kokoura to the purity of Snowfall or the vitality of Oxbow, AVONITE™ offers a color range balanced between trends and timeless classics.

## 12 mm Solid Surface

### PRICE GROUP FUNDAMENTAL



Ivory  
8106



Polaris  
8256



Snowfall  
8090



Super White  
8026



White  
8016

### PRICE GROUP A



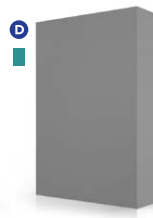
Bone  
8010



Cloud  
8292



Dove Grey  
8231



Smoke  
8280

### Legend

The tones shown on this page may differ slightly from the actual colors. To be safe, make your choice based on samples.

■ Minimum order quantities will apply to these Made to Order (MTO) colors.

Ⓛ These colors are heavily pigmented and prone to show scratches, haziness and ordinary wear and tear compared to lighter colors. These colors are not recommended for use in heavy traffic or heavy use applications and will not be covered under the AVONITE™ warranty for ordinary wear and tear.

♻ Contains Recycled Content. Colors marked with this acronym include recycled material and may therefore qualify for additional credits as part of the building's LEED accreditation.

◆ Riverine is an expansive, free-flowing marble pattern that varies from sheet to sheet. Each sheet is unique.



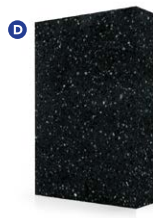
PRICE GROUP B



Alpine Shimmer  
8206



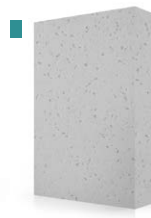
Artica  
9015



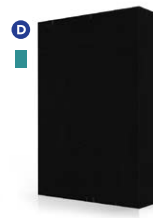
Black Coral  
9125



Black Lava  
9020



Dove Shimmer  
7856



Eclipse  
8240



Galactic Ice  
7790



Kokoura  
9117



New Concrete  
7842



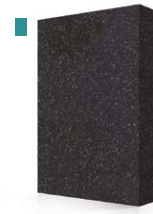
Nordic  
9119



Palermo  
9144



Sandstorm  
9036



Star Shine  
7820

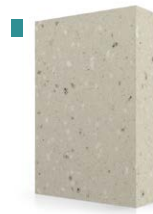
PRICE GROUP C



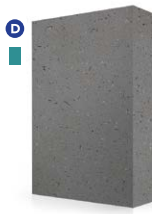
Alaskan Stone  
4312



Coastline  
4310



Gulf Coast  
7710



Industrial  
7849

PRICE GROUP D



Avalanche  
7502

PRICE GROUP E



Haze  
8514



Mist  
8512



Oxbow  
8510



## Enriched Color Technology

Our AVONITE™ Enriched Color Technology delivers a more intense color and its mechanical properties improve scratch resistance.

Available in Eclipse 8240.

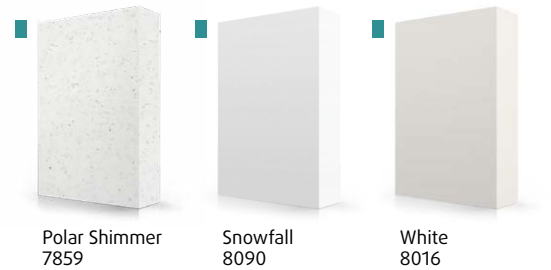
*Private residence, Belgium, 2020  
Design and fabrication: Denis Margot  
AVONITE™ Eclipse 8240*

## Our Color Selection (cont'd)

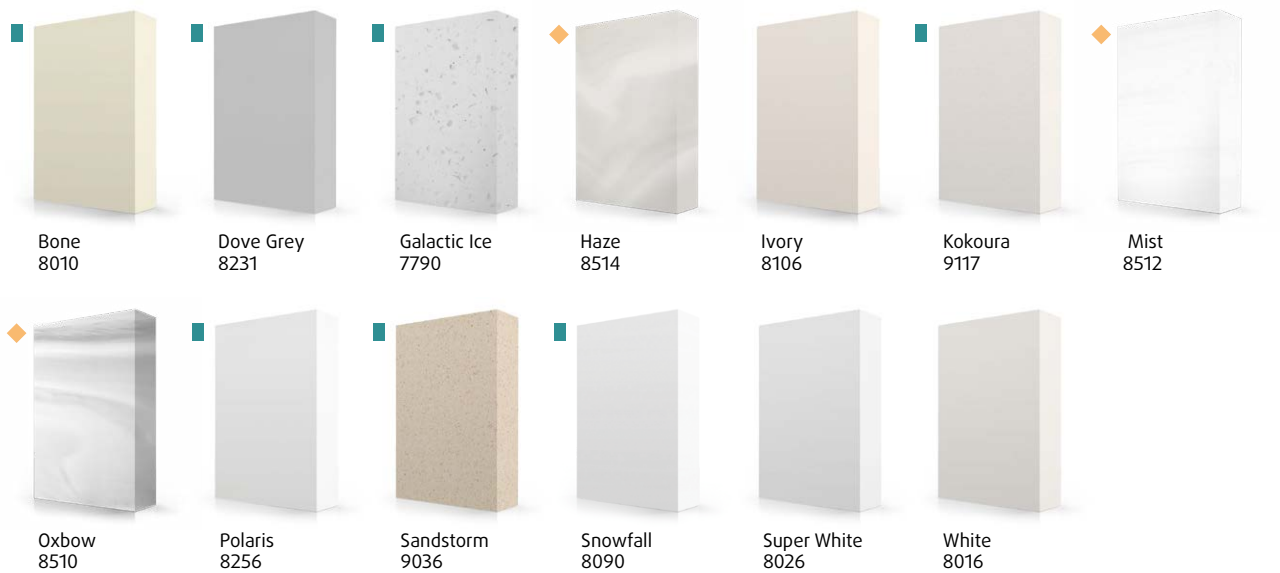
### 3 mm Solid Surface – ADVANC3™



### 9 mm Solid Surface



### 6 mm Solid Surface – Wet Wall



Custom colors available with  
minimum order quantities.

# Additional Legacy Colors

These made to order legacy colors are available in minimum order quantities.  
Contact your representative for details.





# Technical Information

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## Made in the USA

AVONITE™ Solid Surface, manufactured in Florence, Kentucky, is in full compliance with the Build America, Buy America Act (BABAA) requirements.

## Capacity

AVONITE™ has been a pioneer in the surface industry for over 50 years. Trinseo has the largest continuous cast manufacturing facility in the world, with 4 lines that are 9 ft. (2.75 m) wide and 300 ft. (91 m) long.



## Chemical Datasheet

To determine stain and chemical resistance, chemical reagents are placed on the surface for 16 hours\*. After the 16 hours period, reagents are removed using the cleaning methods described in the Technical Bulletin 201 (ISFA 2-01 and ANSI/ICPA SS-1 standards).

### Stain Resistance

Stain resistance looks at the effect below the surface. The following reagents show no lasting effects on the surface of AVONITE™ sheets when tested to the ISFA 2-01 cleanability/stain resistance standard:

• Acetic Acid (10 %)	• Dishwasher Detergent (Cascade)	• 3 %	• Naphtha	• Tomato Juice
• Acetone	• Dishwashing Liquid	• Instant Coff	• Olive Oil	• Trisodium Phosphate (5 %)
• B-4 Body Conditioner	• Distilled Water	• Isopropyl Alcohol (90 % )	• Pencil Lead	• Urea (6 %)
• Ball Point Ink Pen	• Ethanol	• Lemon Juice	• Permanent Marker	• Vegetable Oil
• Black Paste Shoe Polish	• Ethyl Alcohol (90 %)	• Lye Solution (1-2 %)	• Pig Blood	• Vinegar
• Bleach (Household Type)	• Finger Nail Polish Remover	• Mercurochrome (2 %)	• Pine Oil	• Wax Crayon
• Butyl Acetate	• Gasoline	• Methanol	• Povidone Iodine (10 %)	• Wet Pekoe Tea Bag
• Butyl Alcohol	• Household bleach	• Methyl Acetate	• Yellow Mustard	• Wine
• Butyl Ether	• Household Ammonia	• Methyl Ethyl Ketone	• Sodium Sulfate (10 %)	• Xylene
• Catsup	• Hydrogen Peroxide	• Methyl Orange (1 %)	• Soy Sauce	• Zinc Chloride (10 %)
• Citric Acid (10 %)	• Hydrogen Peroxide Solution,	• Methyl Red (1 %)	• Sugar (sucrose)	
• Cupra Ammonia		• Mineral Oil	• Toluene	

### Chemical Resistance

Chemical resistance is a measure of visible surface changes. The following reagents show no lasting effects on the surface of AVONITE™ Acrylic Solid Surface sheets when tested to the ANSI/ICPA SS-1 standard:

• Acetic Acid (10 %)	• (Household Type)	• Hexane	• Olive Oil	• Sugar (Sucrose)
• Acetone	• Blood	• Household Soaps	• Pencil Lead	• Tea
• Acridine Orange	• Butyl Acetate	• Hydrogen Peroxide	• Perchloric Acid	• Toluene
• AG Eosin Blue (5 %)	• Butyl Alcohol	• Hydrogen Peroxide Solution (3 %)	• Permanent Marker Ink	• Tomato Juice
• AG Gentian Violet	• Butyl Ether	• Instant Coffee	• Picric Acid	• Trisodium Phosphate (5 %)
• Ammonia (10 %)	• Catsup	• Isopropyl Alcohol (90 %)	• Pig Blood	• Urea (6 %)
• Ammonium Hydroxide (28 %)	• Citric Acid (10 %)	• Lemon Juice	• Pine Oil	• Uric Acid
• Amyl Acetate	• Coffee	• Lye Solution (1-2 % )	• Povidone Iodine (10 %)	• Urine
• Amyl Alcohol	• Cupra Ammonia	• Mercurochrome (2 %)	• Yellow Mustard	• Vegetable Oil
• Aromatic Ammonia	• Dishwashing Liquid (Cascade)	• Methanol	• Salt (Sodium Chloride)	• Vinegar
• B-4 Body Conditioner	• Dishwashing Liquid (Dawn)	• Methyl Acetate	• Silica Dental Cement (liquid)	• Wax Crayon
• Ball Point Pen	• Distilled Water	• Methyl Ethyl Ketone	• Silver Nitrate (10 %)	• Wet Pekoe Tea Bag
• Betadine Solution	• Equalizing Accelerator	• Methyl Orange (1 %)	• Soapless Detergents	• Wine
• Bite Registration Accelerator (2 % Eugenol)	• Ethanol	• Methyl Red (1 %)	• Sodium Bisulfate	• Xylene
• Bite Registration Base	• Ethyl Acetate	• Mineral Oil	• Sodium Hydroxide Solution (<10 %)	• Zinc Chloride (10 %)
• Black Paste Shoe Polish	• Ethyl Alcohol (90 %)	• Naphtha	• Sodium Hypochlorite (5 %)	
• Bleach	• Nail Polish Remover	• Napthalene (Naptha)	• Sodium Sulfate (10 %)	
	• Gasoline	• Nitric Acid (6 %)	• Soy Sauce	

The following reagents should not come into contact with AVONITE™ sheets for long periods of time. These reagents may cause surface changes on the sheets that are more difficult to remove:

• Bite Registration Mix (50/50)	• Dry-Bond Dental Adhesive	• Eosine Methylene Blue	• Nitric Acid (>25 %)	• Sulfuric Acid (>25 %)
		• Hydrochloric Acid (>20 %)	• Sodium Hydroxide Solution (>25 %)	
		• Nail Polish		

\*Although the 16 hours period is standard test procedure, it is recommended to remove chemicals as soon as possible, to prevent damage to the surface.

# Physical Properties

## AVONITE™ Acrylic Solid Surface Sheets

Trinseo AVONITE™ Acrylic Solid Surface sheet products provide exceptionally weatherable, strong, non-porous, scratch and stain resistant material for architectural designs and utilitarian surfaces.

			3 mm	6 mm	9 mm
Property	Test Method	Units	Solids	Solids	Solids
General					
Density	ASTM D 792	g/cm <sup>3</sup>	1.73	1.73	1.73
Water Absorption	ASTM D 570	%	0.13	0.04	0.04
Mechanical					
Tensile strength	ASTM D 638	MPa	33.4	31.1	31.1
Tensile modulus	ASTM D 638	MPa	7 010	10 514	10 514
Tensile elongation	ASTM D 638	%	1.40	0.40	0.40
Flexural strength	ASTM D 790	MPa	71.0	64.1	64.1
Flexural modulus	ASTM D 790	MPa	6 070	8 687	8 687
Barcol hardness	ASTM D 2583	–	59	63	63
Rockwell hardness (m scale)	ASTM D 785	–	86	94	94
Charpy impact	ASTM D 6110	J/m	104.0	58.7	58.7
Ball impact (227g ball, no failure)	NEMA LD3-3.8	cm	–	–	305
Ball Impact (227g ball, no failure) Supported	NEMA LD3-3.8	cm	>380	>380	–
Ball Impact (227g ball, no failure) Unsupported	NEMA LD3-3.8	cm	213	215	–
Thermal					
Dt <sub>ul</sub> @ 1.82 Mpa	ASTM D 648	°C	88	102	102
Coefficient of thermal expansion	ASTM D 696	cm/cm/°C	–	3.76x10 <sup>-5</sup>	3.76x10 <sup>-5</sup>
Boiling water resistance	ISFA 2-01	–	No Effect	No Effect	No Effect
High temperature resistance	ISFA 2-01	–	No Effect	No Effect	No Effect
Reaction to fire	ASTM E 84	–	Class B	Class A	Class A
Combustion toxicity	Pittsburgh Protocol	–	98	98	98
Total Volatile Organic Compounds	ASTM D 5116	µg/m <sup>2</sup> /hr	69.1	69.1	69.1
Surface					
Consistency of color (same sheet)	ISFA 2-01	–	Passes	Passes	Passes
Light resistance	ISFA 2-01	–	No Effect	No Effect	No Effect
Cleanability/Stain resistance	NEMA LD3-3.4	–	Passes	Passes	Passes
Stain resistance	ANZI/ICPA SS-1	–	Passes	Passes	Passes
Bacterial resistance	ASTM G 22	–	No growth	No growth	No growth
Fungi resistance	ASTM G 21	–	No growth	No growth	No growth
Food zone use	NSF 51	–	Approved	Approved	Approved



12 mm				
Solids	Small Particulate	Medium Particulate	Large Particulate	AVONITE™ 8064 IceWhite 8298 Ice Blue
1.73	1.60	1.62	1.63	1.60
0.04	0.05	0.05	0.05	0.05
31.1	31.1	28.3	25.2	30.7
10514	7142	8411	8204	8650
0.40	1.00	0.55	0.45	2.20
64.1	55.2	49.3	47.2	58.3
8687	7329	7240	8067	7010
63	58	59	60	55
94	94	93	93	92
58.7	58.7	45.3	42.7	59.8
>380	305	290	215	>380
-	-	-	-	-
-	-	-	-	-
102	93	93	92	100
$3.76 \times 10^{-5}$	$4.43 \times 10^{-5}$	$4.43 \times 10^{-5}$	$4.43 \times 10^{-5}$	-
No effect	No effect	No effect	No effect	No effect
No effect	No effect	No effect	No effect	No effect
Class A	Class A	Class A	Class A	Class B
98	67	67	67	98
69.1	69.1	69.1	69.1	69.1
Passes	Passes	Passes	Passes	Passes
No effect	No effect	No effect	No effect	No effect
Passes	Passes	Passes	Passes	Passes
Passes	Passes	Passes	Passes	Passes
No growth	No growth	No growth	No growth	No growth
No growth	No growth	No growth	No growth	No growth
Approved	Approved	Approved	Approved	Approved



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#### Product Stewardship

Trinseo and its affiliated companies have a fundamental concern for all who make, distribute, and use their products and for the environment in which we live. This concern is the basis for our Product Stewardship philosophy by which we assess the safety, health, and environmental information on our products so that appropriate steps may be taken to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Trinseo products – from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

#### Customer Notice

Customers are responsible for reviewing their manufacturing processes and their applications of Trinseo products from the standpoint of human health and environmental quality to ensure that Trinseo products are not used in ways for which they are not suitable. Trinseo personnel are available to answer questions and to provide reasonable technical support. Trinseo product literature, including safety data sheets, should be consulted prior to the use of Trinseo products. Current safety data sheets are available from Trinseo.

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