

staron®
Solid Surfaces



www.staron.com



LOTTE CHEMICAL

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MIDDLE EAST & AFRICA

STARON
SOLID SURFACES



STARON

SOLID SURFACES



LOTTE, a Lifetime Value Creator that enriches the lives of all. LOTTE continues to push further beyond and pursue innovation across the diverse areas of food, retail, tourism and chemicals to continuously offer the most up-to-date lifestyle for its customers. A life of greater convenience and delight paired with a flourishing future of shared growth for all.

This is what awaits us in the future LOTTE aims to create.





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STARON

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Lotte World Tower & Mall



Lotte World Complex



Lotte New York Palace Hotel



Lotte World Mall



Lotte Ria fast-food



Lotte Mart



Lotte Duty Free

LOTTE GROUP

Lifetime Value Creator

LOTTE's shining history began in 1967 and has successfully expanded through acquisitions and partnerships to become a pioneer group in Korea and globally in various industries such as Chemicals, Construction, Tourism, Retail, Finances and Food.

Today, as LOTTE looks ahead to the next fifty years, we are continuing to build a better world for everyone and continues to challenge itself to realize this ambitious dream by embracing bold change and innovation.

2020 SALES PERFORMANCE BY BUSINESS

Retail	Chemical, Construction	Tourism, Service	Food
39%	34%	14%	13%

Business ranking in Korea*	5th
Companies	46
Assets*	KRW 125.7 trillion
Sales*	KRW 56.4 trillion
Employees	180,000

* Source - May 2021 announcement by the Korea Fair Trade Commission.

LOTTE CHEMICAL

Business Unit

LOTTE's Chemical Business Unit is Korea's representative chemical company founded in 1976 and has been growing into a global top-7 chemical company' by procuring product competitiveness based on its superior R&D capacities and expertise.

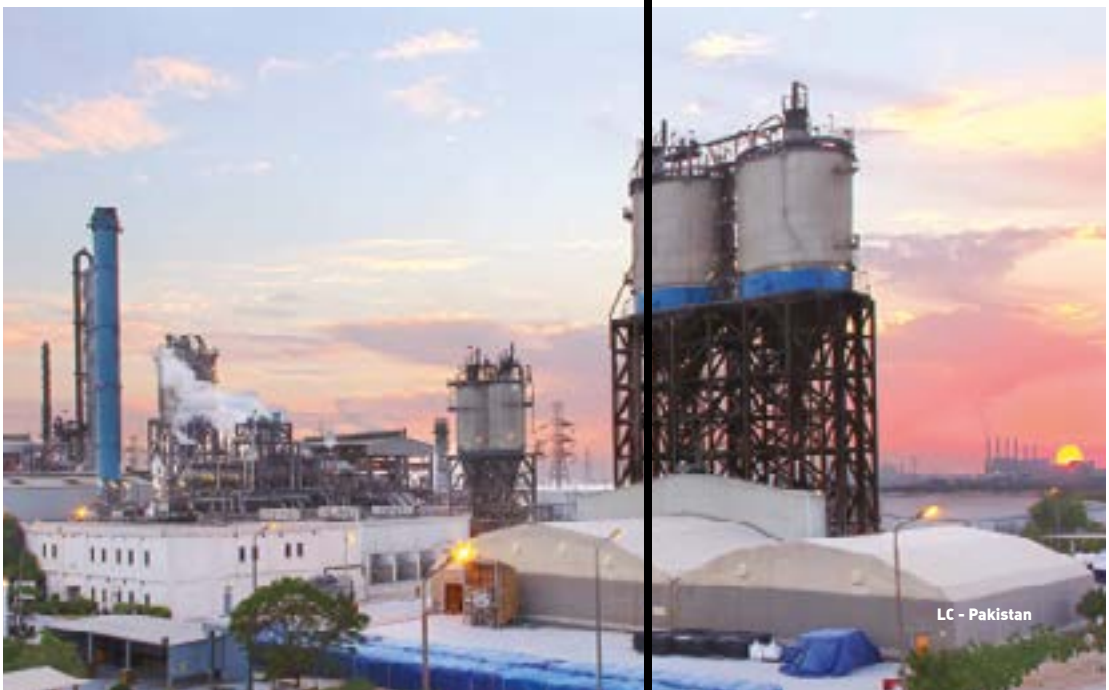
Constructing a diverse business portfolio with total of 26 affiliated companies producing Polymers, Monomers, Basic petrochemical products, Megatrend products, Advanced construction and Interior materials.

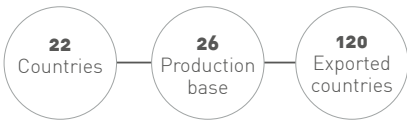
MAIN PRODUCTS

Basic Chemicals			Advanced Materials		
Petro-chemicals	Polymer	Monomer	Plastics	Interior Materials	Water Treatment Membrane

Global ranking	7
Companies	26
Equity	KRW 13,712 billion
Sales	KRW 12,223 billion
Exported countries	120
Employees	10,729

* As of 2020 business performance.





Company	Plant	Sales Office
LOTTE CHEMICAL Basic Chemicals		
LOTTE CHEMICAL Advanced Materials		
LOTTE FINE CHEMICAL		
LOTTE CHEMICAL ITAM		
LOTTE MOC		
LOTTE BP CHEMICAL		
LOTTE ALUMINUM		



LOTTE CHEMICAL

Interior Materials



LC - Yeosu plant, South Korea

1992, Company commenced the manufacture of premium acrylic solid surface product STARON® brand at Yeosu plant in South Korea with production capacity 970K sheets annually.

2006, Introduced the new Tempest® collection which accentuated the world's first translucent jewel-like colors.

2015, Launched Supreme® collection featuring a natural rhythmic as the next-generation solid surface choice with beautiful, flowing veined patterns that resemble those found in marble and other natural stone.

2016, The takeover of Samsung Chemical units which gained a foothold to jump into a leading chemical company and expanding globally with high value added product line-ups through the vertical integration in the Petrochemical sector and Interior materials.

2018, Developing evermoin® antimicrobial 'more innovation & functional integrations' materials brand from Staron created based on the exclusive technology of LOTTE Chemical.



STARON

Interior Materials

PREMIUM SOLID SURFACES

STARON® Solid Surfaces is an acrylic-based material made of natural minerals. Just as decorative as natural stone, but with all the advantages of a solid surface material. As it is solid and non-porous, it can be processed three-dimensionally, offering architects and designers maximal freedom.

Although STARON® incorporates all important qualities of stone, it can be worked by fabricators in a similar way as hardwood. Unlike stone however, STARON® feels warm and pleasant to the touch.

With its many advantages and versatile application possibilities, STARON® is a convincing contribution to the private, commercial and medical sectors alike.

LIFESTYLE

YOUR DESIGN SOLUTIONS BY STARON

NATURAL

Displaying graceful and delicate patterns, Staron evoke the natural character of stone while offering all the practical benefits of a solid surface. For those looking to create a warmer scheme, Latte Cream is the ideal choice and perfectly suited to any type of residential environment.



LIVELY

From your house to your favourite café and restaurant, Staron can inject dynamism and spirit into any space, ensuring everybody can feel the energy in all directions. Arctic White, perfect for creating unique and remarkable spaces. A Staron colour adds drama and sophistication to any interior scheme.



URBAN

Designed with modern living in mind, The Urban Series collection from Staron introduces an effortless urban chic to interiors. Our collection is inspired by the wave of contemporary industrial design trends that have captured the world of interiors. Select the deeper and more detailed Noir Concrete to create a subtle urban style.





Supreme Flux VF113

STRETCH YOUR IMAGINATION

To Experience The Possibilities With Staron®

WHY STARON?

Staron® solid surface materials boast dimensional flexibility and low maintenance and is ideal for a multitude of interior applications. Comprised of a wide range of color and pattern options, Staron® is non-porous, ultra-hygienic and ultimately durable. The Tempest and Supreme collections offer high-transparent gemstone textures and elegant, refined vein patterns like natural marble.

STARON BENEFITS



RELIABLE PERFORMANCE

- Cutting-edge technology sets a new standard in surface
- Able to be inconspicuously repaired due to its homogenous composition



INFINITE RANGE OF COLORS

- Over 150 color options ranging from natural to vivid
- Ongoing collaboration with color trend experts keeps Staron commercially relevant



GLOBAL NETWORK

- Regional branch offices and product distribution networks worldwide



HYGIENIC SURFACE

- Non-porous surface inhibits growth of mold and bacteria
- Resistant to heat and abrasion
- Able to refurbish to a new condition



IMPERCEPTIBLE SEAMS

- Consistent color and texture on every sheet provides a smooth and seamless surface
- Installed without gaps, crevices, or obvious joint-lines



TRANSLUCENCY

- Creative back-lighting effects created by altering the thickness of the material to allow transmission from a low-energy light source



DIMENSIONAL FLEXIBILITY

- Thermo-formable into three-dimensional shapes
- Excellent workability enables virtually unlimited design possibilities

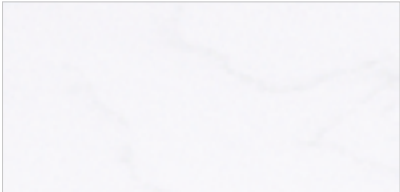


RELIABLE QUALITY

- Advanced quality control policy and a commercial 10-year warranty
- Certified eco-friendly by Greenguard and Scientific Certification System

COLORS OF STARON®

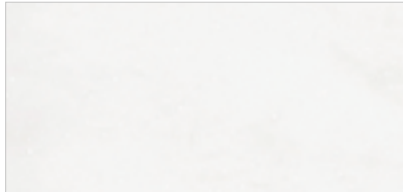
SUPREME



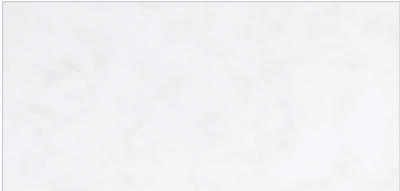
Cotton White VC110



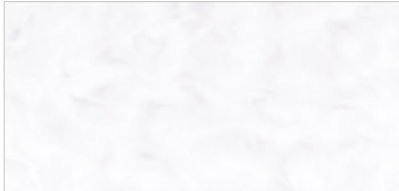
Morning Sky VM114



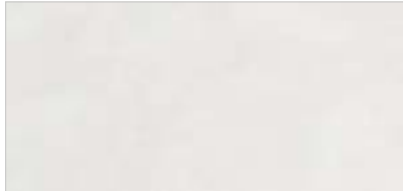
Tranquil VT115



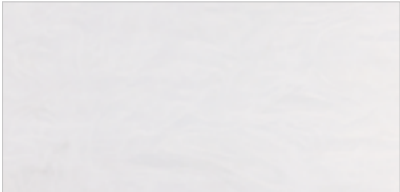
Downy White SF100



Downy Dove SP105



Flux VF113



Arctic White VA311



Rotor Cloud VR322



Latte Cream VL343



Ocean View V0171



Magnolia VM143



Beige Granite VB172



Natural Bridge VN144



Dandelion VD175



Loam VL155



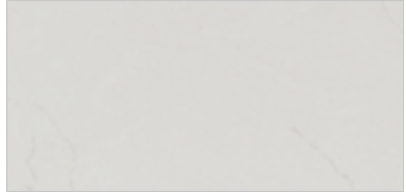
Rotor Cloud VR322



Cloudbank VC118



Dawn VD126



Urban Grey VU127



Ash Concrete VA129



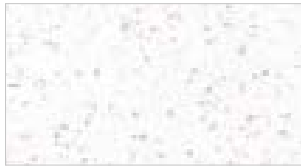
Noir Concrete VN180



Presto VP159



TEMPEST



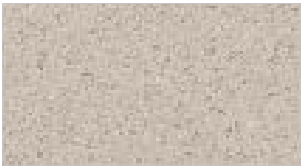
Peak FP100



Twilight FT113



Shell FS115



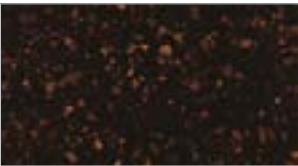
Mystic FM178



Rattan FR124



Coffee Bean FC158



Radiance(Shimmer) FR148



Terrazzo Como FT191

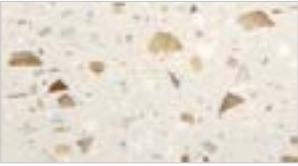
QUARRY



Mosaic Dalmatian QD212



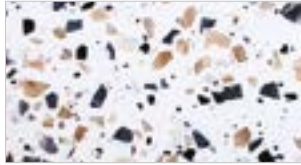
Quarry Oyster T0310



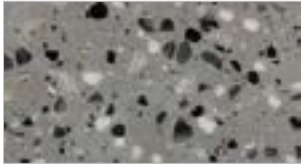
Terrazzo Bologna NT970



Quarry Ridge QR278



Terrazzo Venezia NT150

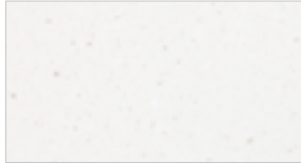


Terrazzo Torino NT981

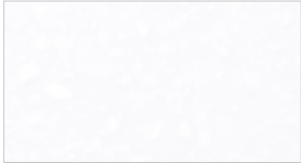


Quarry Starred(N) QS288

PEBBLE



Pebble Moon PM832



Pebble Frost PF812



Pebble Swan PS813



Pebble Boulder PB852



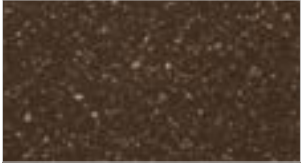
Pebble Saratoga PS820



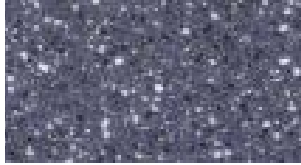
Pebble Chiffon PC842



Pebble Gold PG840



Pebble Terrain PT857



Pebble Blue PB870

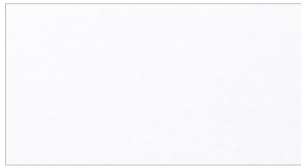


Pebble Grey PG810

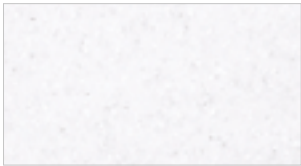


Pebble Ebony PE814

ASPEN



Aspen Glacier AG612



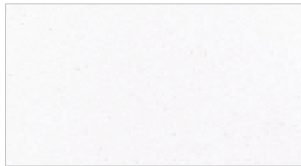
Aspen Snow AS610



Aspen Alder AA625



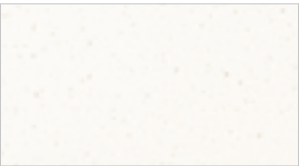
Aspen Concrete AC629



Aspen Eggshell AE642



Aspen Iceberg AI612



Aspen Glow AG636



Aspen Brown AB632

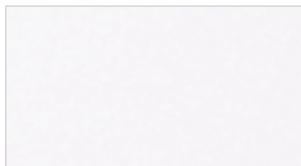


Aspen Grey AG620

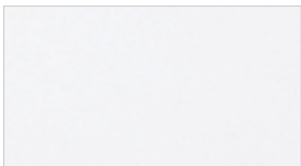


Aspen Mine AM633

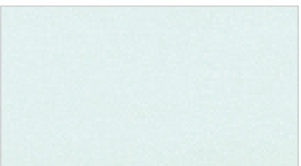
SANDED



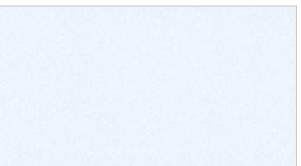
Sanded Icicle SI414



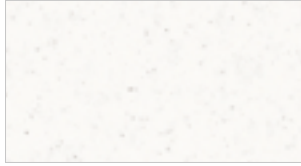
Sanded Dover SD413



Sanded Mint SM463



Sanded Iceblue SI462



Sanded Birch SB412



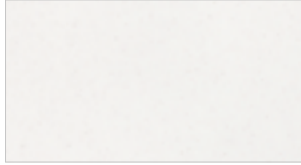
Sanded W-Pepper WP410



Sanded Grey SG420



Sanded Heron SH428



Sanded Cream SM421



Sanded Sahara SS440



Sanded Gold Dust SG441



Sanded Vermillion SV430



Sanded Clay SC475



Sanded Chestnut SC457



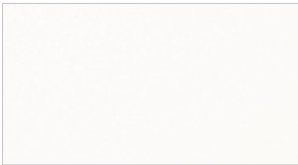
Sanded Taupe ST486



Sanded Onyx SO423



METALLIC



Metallic Yukon EY510



Metallic Sleeksilver(N) ES582

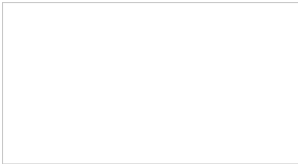


Metallic Atrous EA599

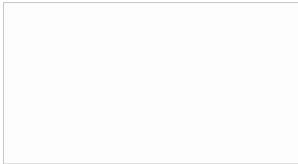


Metallic Galaxy EG595

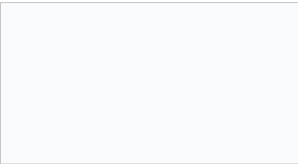
SOLID



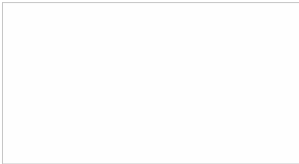
Dazzling White SD001



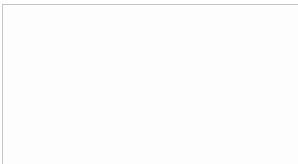
Bright White BW010



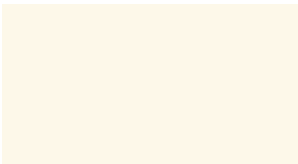
Quasar White SQ019



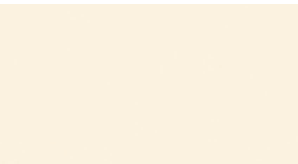
Pearl SP011



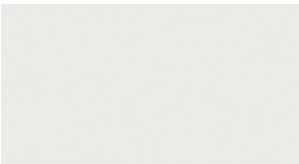
Infinity IF188



Natural SV041



Ivory SI040



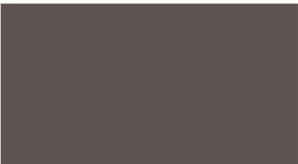
Fog SF020



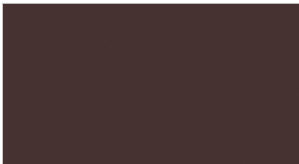
Bliss SB022



Serene SS023



Steel ST023



Iris SI056



Oasis SO064



Sunflower(N) SS042



California Poppy(N) SC052



Univers(N) SU053



Ultramarine SU067

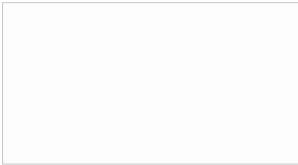


Forest SF061

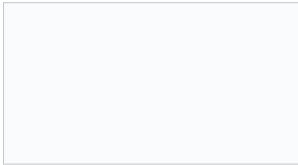


Piano Black GP790

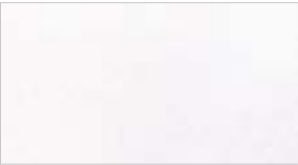
EVERMOIN (Antimicrobial)



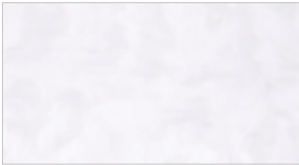
Angel White MA020



Ultra Bright MU010



Limpio ML612



Granville MG030



Downy White SF100

Printed representation of colors may vary from actual samples.
Please review actual sample prior to selection.
To view new colors in greater detail, please visit www.staron.com

- Translucent
- Antimicrobial
- Exterior Material
- Eco-Friendly
- Super Flex





SUPREME Intimate Moments

Translucent / Mystical / Organic Pattern

The upgraded Supreme III from Staron® is inspired by marble that have unexpected movements and cracks of nature formed by long-enduring harsh natural conditions. The vein conveys a sense of depth by the effects of reflection, refraction, and overlay through light. The lighting transmission effect relieves people's anxiety and isolation by providing emotional stability. Depending on the presence or absence of lighting, three types of interpretation are possible, so it can be used not only for countertops but also as wall-claddings.

Enjoy our three new fabulous decors in the Supreme III series;

Arctic White with marble-like veins on subtle white.

Rotor Cloud that stands out with the harmony of tinted grey and bold white veins.

Latte Cream like the dawn of winter, laid down onto the color of the vast lands.



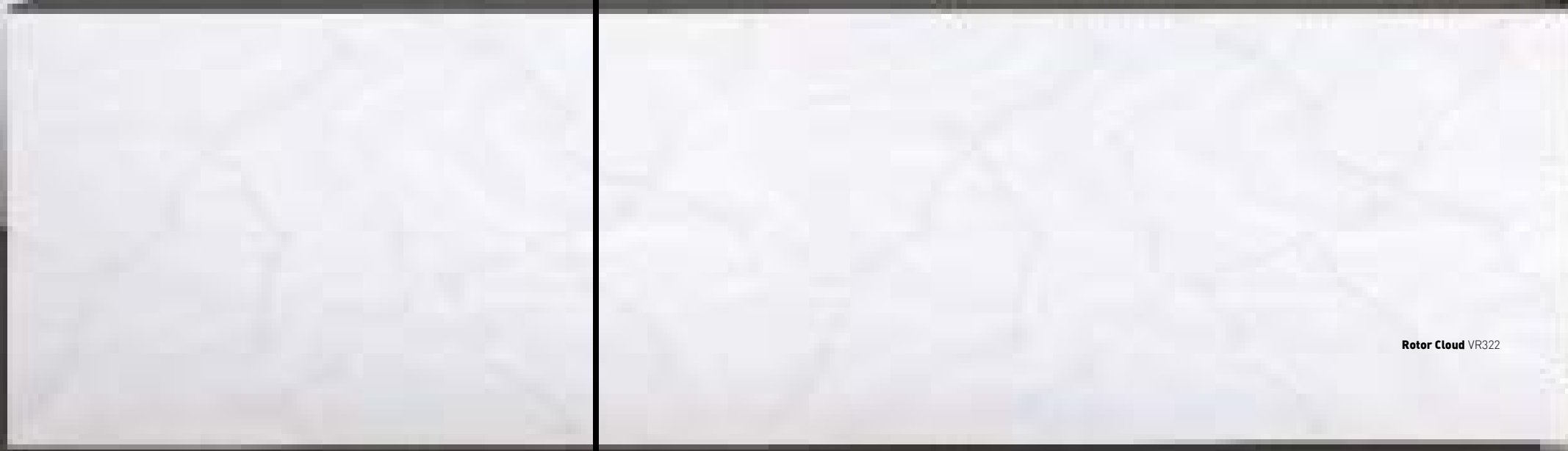
Arctic White VA311



Arctic White VA311

Rotor Cloud VR322

Latte Cream VL343



Rotor Cloud VR322



Downy White SF100



Downy Dove SP105



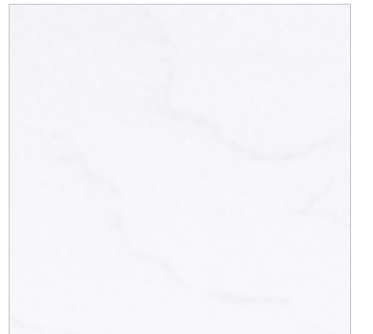
Evermoin Granville MG030

Downy White SF100 and **Ultramarine** SU067





Cotton White VC110



Cotton White VC110



Morning Sky VM114



Urban Grey VU127

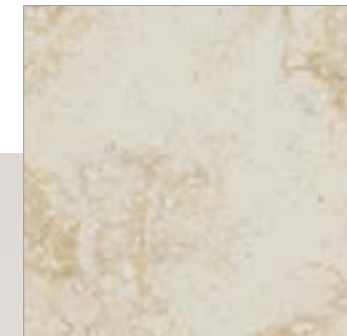


Dandelion VD175

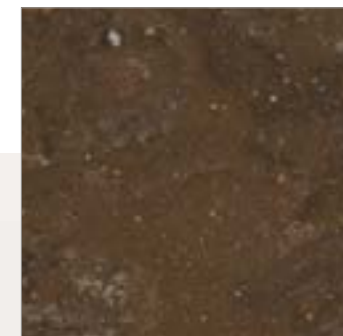
Magnolia VM143



Dandelion VD175

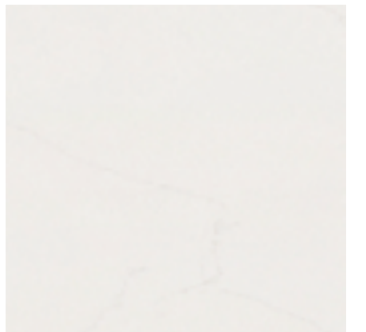


Loam VL155





Design by Tania Kloester, TK Design, Australia.



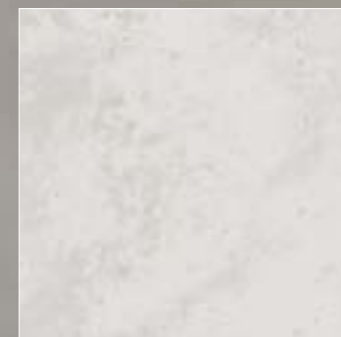
Beige Granite VB172



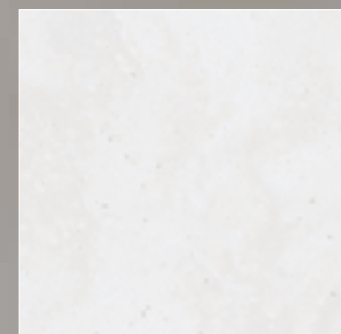
Ocean View V0171

Ocean View V0171





Dawn VD126



Cloudbank VC118



Ash Concrete VA129

Ash Concrete VA129



TERRAZZO

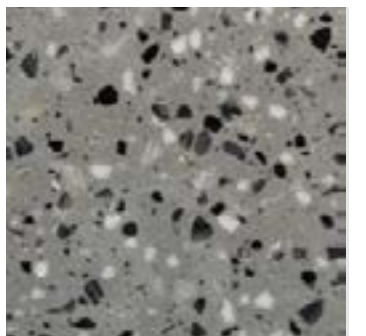
Designed With Modern Living

Introducing the Terrazzo Collection, a new addition to the Staron portfolio. Featuring contrasting flecks, these new Terrazzo shades offer homeowners and interior designers the authentic look of Terrazzo and the exceptional qualities of Staron. An on-trend surface suited to any kind of space. Packed full of contrasting flecks, which run through the entire thickness of the material, the new design combines a stunning appearance with a seamless finish.





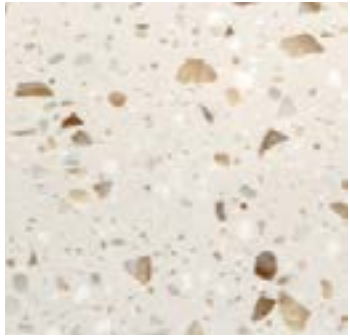
Terrazzo Torino NT981



Terrazzo Torino NT981



Terrazzo Como FT191



Terrazzo Bologna NT970



Terrazzo Venezia NT150



Terrazzo Venezia NT150





SOLID

Color Healing

Distinct / Optimistic / Energizing

Color conveys simple yet powerful messages, and it contains numerous emotions. Intense colors communicate rich sensibility as well as lively and friendly atmosphere full of positive energy. These refreshing colors inspired by nature can be expected to have greater effects when harmonized with the existing STARON® colors in various commercial spaces.

Ultramarine

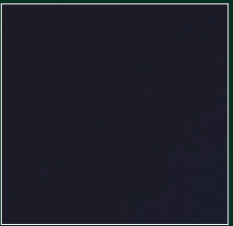
Brings tranquility and comfort to people with its positive color soothing effect. Blue energizes the space and at the same time calms the mind, giving a sense of comfort and relief.

Forest

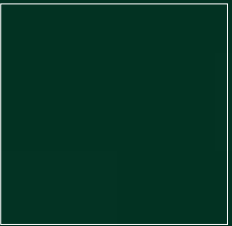
Is a vivid mint color with a hint of bluish green. It carries a pleasant, modern and outgoing mood. The positive energy of Forest gives life to the space and helps alleviate people's anxiety and depression, since it inherits healing aspects.

Piano Black

Is a vivid black with an elegant, sophisticated and modern mood that can emphasize the sensual simplicity of a space when used within an appropriate color scheme. This is a timeless beauty that allows unlimited design.



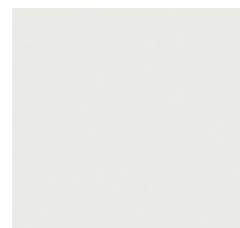
Ultramarine SU067



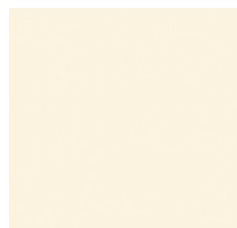
Forest SF061



Piano Black GP790



Fog SF020



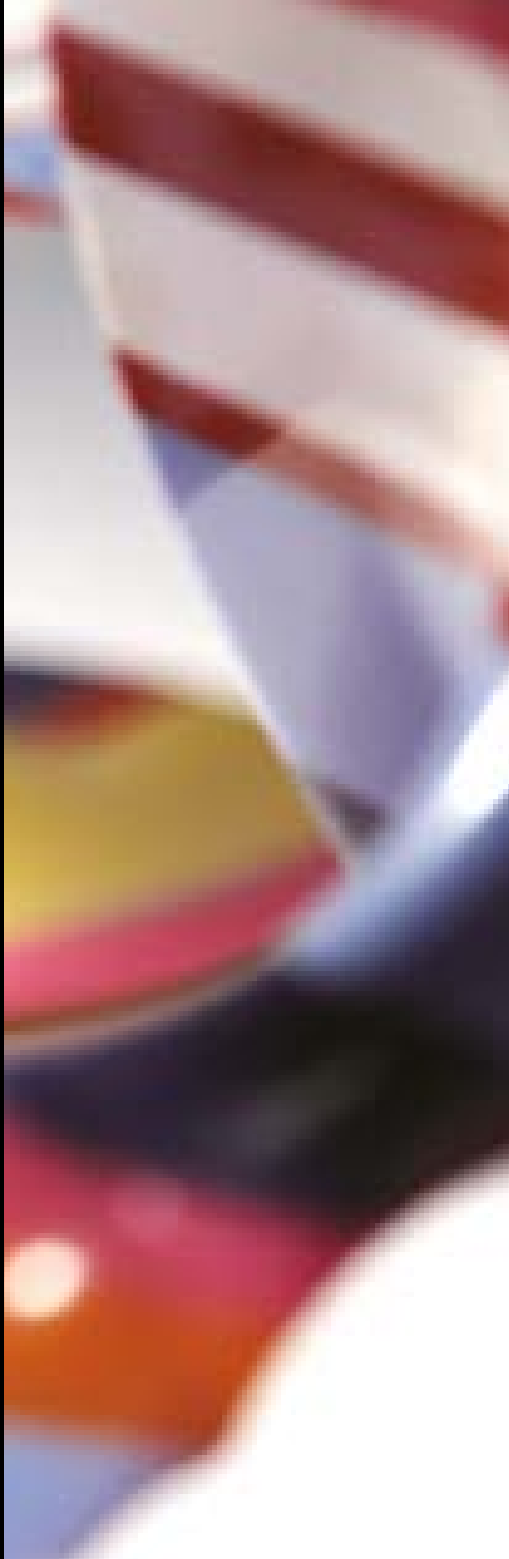
Ivory SI040



Sunflower(N) SS042



Oasis S0064



California Poppy(N) SC052



Univers(N) SU053



Serene SS023



Steel ST023

INTERIOR

Wall-cladding



Samsung HR Development Center - Exhibition Hall, Korea

EXTERIOR
Wall-cladding



ANTIMICROBIAL STARON®

For Healthcare



The healthiest Ultra-Hygienic choice for your design

Staron evermoin® can be applied to almost any interior space within a healthcare facility. Imagine casework, work-stations and wall-cladding in a functional and renewable material that is durable as well as ultra-hygienic.

BENEFITS OF STARON EVERMOIN®

Ultra-Hygienic

Speedy ultra-hygienic effect and action on representative bacteria and fungi

Durability

Excellent Ultra-Hygienic retention and Confirm quality stability and durability

Safety

Material certification harmless to human body and environment (EPA, NSF, FDA)

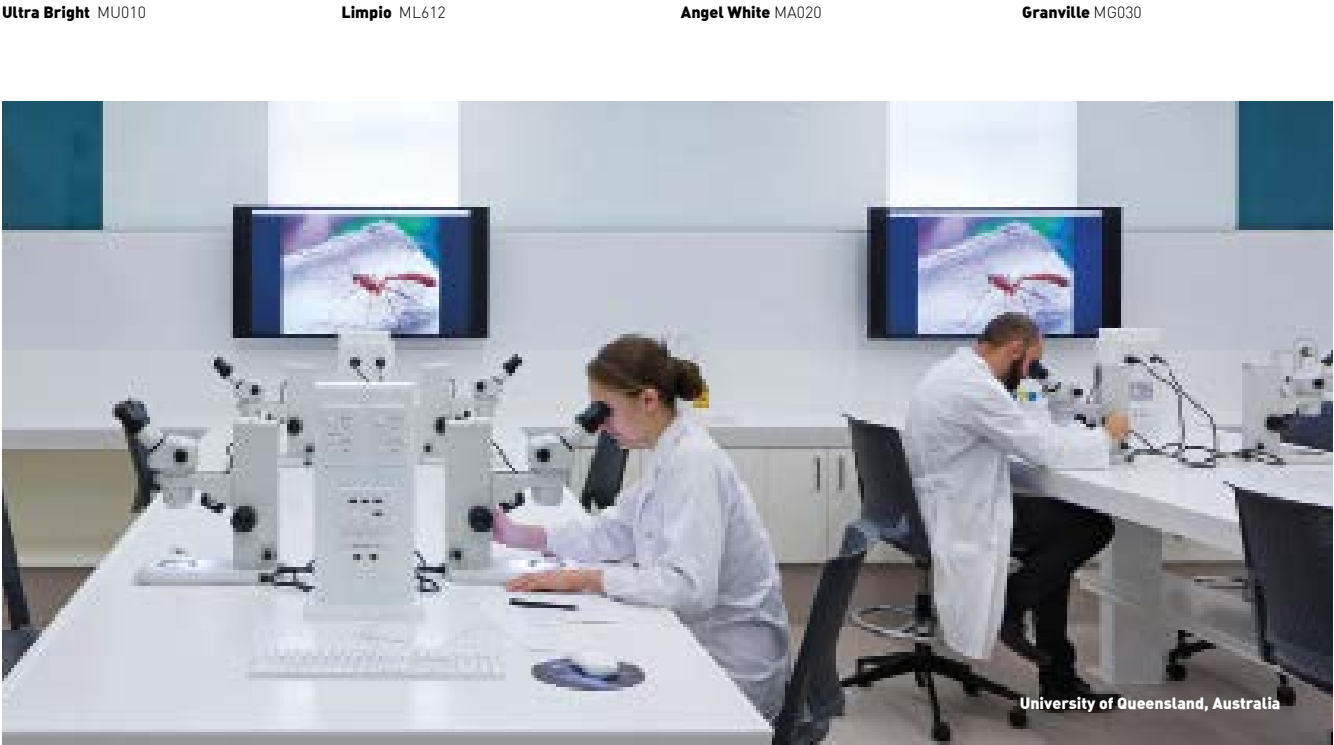
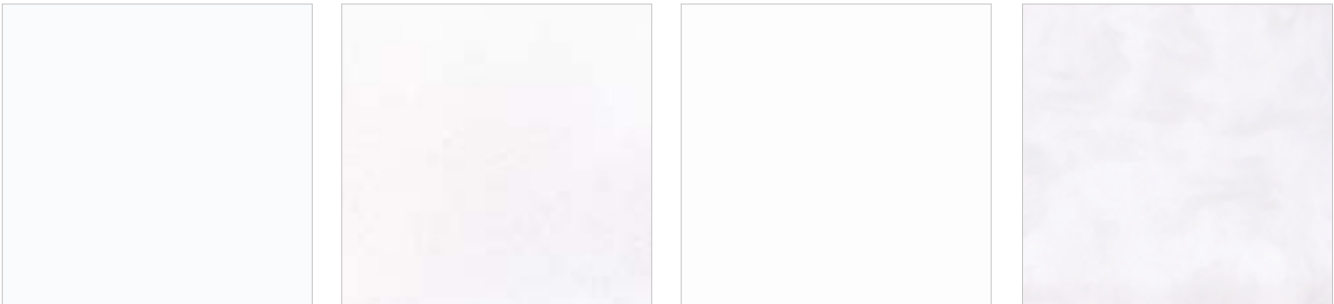
Eco-friendly

Achieved SCS RECYCLED CONTENT CERTIFICATION which demonstrates our commitment to conserving natural resources. [SCS Recycle 6%]

SAFETY PROPERTIES

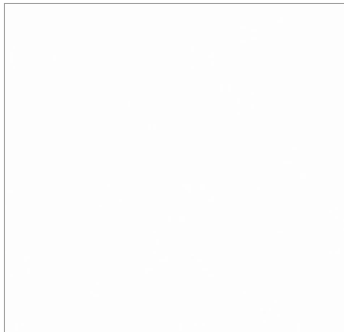
Obtained certification that guarantees sanitary safety and reliability harmless to the human environment such as Japan SIAA and US NSF and FDA.

Harmless to human body			Safe for food contact	Eco-friendly
SIAA Society of International sustaining growth for Ultra-Hygienic Articles	EPA US Environmental Protection Agency	FDA US Food & Drug Administration	NSF National Sanitation Foundation	Eco-Friendly SCS Global Services



SUPER-FLEX STARON®

For Dramatic Curves & Flexibility



Infinity IF188



DRAMATIC CURVES & DESIGN

Minimum Radius: 0mm
Staron® Super Flex boasts superior thermoplastic capabilities that can create limitless possibilities of shapes and designs from the slightest curves to extreme bends.

HIGH ELONGATION

The elongation rate of Staron® Super Flex is two times higher than that of existing Staron®.
Staron® Super Flex can be used for architectural and interior applications, such as high-performance wall-cladding or kitchen, bathroom and furniture surfaces.

TIME REDUCTION

Staron® Super Flex can be thermoformed at lower temperature and in shorter heating time compared to the thermoforming process of existing Staron®.

Product	Oven Temperature
Staron Solid (12T)	302°F (150°C)
Staron Infinity (12T)	284°F (140°C) 302°F (150°C)

Time	Folding limit (Radius)
45-80 min	2" (50mm)
20-30 min 15-30 min	0" (0mm)

CAUTIONS FOR PROCESSING

Please note that variations in heating time and temperature conditions depending on the oven equipment. The table above shows the thermoforming conditions using convection ovens.
Thermoforming at temperatures above 180° can lead to decreased performance. Damage on Staron® Super Flex sheet can occur at temperatures above 185°. (using convection ovens)
Thermoforming time is shorter when using platen ovens.



Dongdaemun Design Plaza & Park, Korea



University of Economics & Business, Vienna



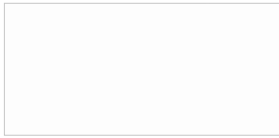
Heidi.com Flagship Store, Switzerland

Designs by Zaha Hadid Architects

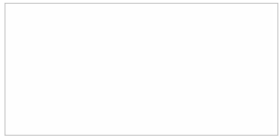


SINK & BOWL FROM STARON®

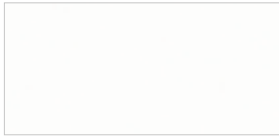
COLOR OPTIONS



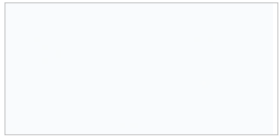
Bright White BW010



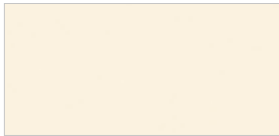
Pearl SP011



Pure white SP016



Quasar White SQ019



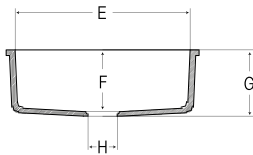
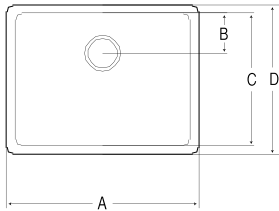
Ivory SI040



A2311

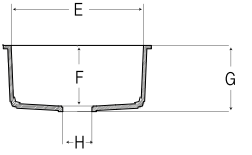
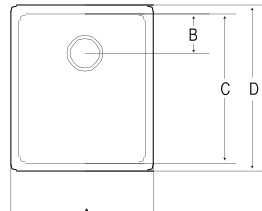
NEW KITCHEN / UTILITY SINKS

B1212



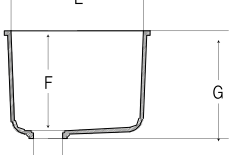
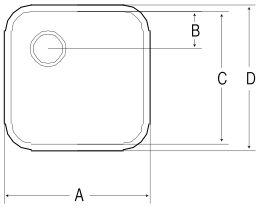
A	581mm	E	530mm
B	122mm	F	185mm
C	400mm	G	200mm
D	451mm	H	90mm

B1177



A	450mm	E	400mm
B	120mm	F	185mm
C	450mm	G	200mm
D	500mm	H	90mm

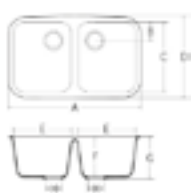
B1160



A	440mm	E	400mm
B	112mm	F	300mm
C	400mm	G	325mm
D	440mm	H	90mm

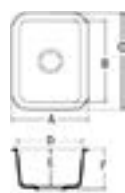
KITCHEN / UTILITY SINKS

A2311



A	794mm
B	110mm
C	421mm
D	481mm
E	348mm
F	235mm
G	250mm
H	90mm

A1121



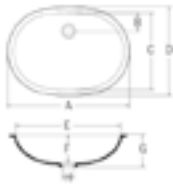
A	326mm
B	356mm
C	416mm
D	266mm
E	165mm
F	180mm
H	90mm

A1231



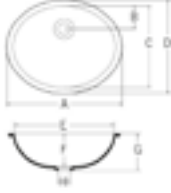
A	592mm
B	422mm
C	482mm
D	532mm
E	187mm
F	202mm
H	90mm

A3211



A	548mm
B	86mm
C	356mm
D	396mm
E	508mm
F	156mm
G	173mm
H	45mm

A3181



A	462mm
B	94mm
C	336mm
D	376mm
E	422mm
F	139mm
G	156mm
H	45mm

A1181



A	460mm
B	400mm
C	460mm
D	400mm
E	208mm
F	225mm
H	90mm

B3290



A	750mm
B	400mm
C	450mm
D	700mm
E	185mm
F	200mm
H	90mm

B3180



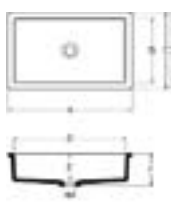
A	450mm
B	400mm
C	450mm
D	400mm
E	175mm
F	190mm
H	90mm

B3150



A	427mm
B	278mm
C	327mm
D	378mm
E	116mm
F	138mm
H	45mm

B3190

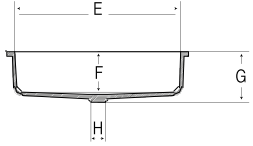
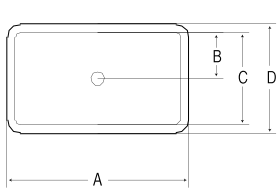


A	524mm
B	274mm
C	327mm
D	474mm
E	116mm
F	138mm
H	45mm

BOWLS (BASINS)

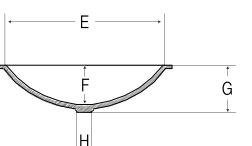
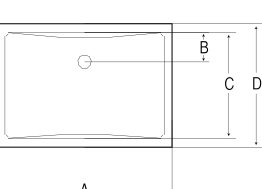
NEW BOWLS (BASINS)

B3200



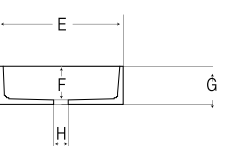
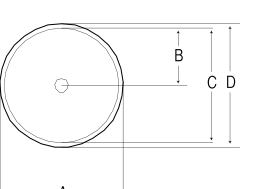
A	550mm	E	500mm
B	140mm	F	120mm
C	280mm	G	140mm
D	330mm	H	44mm

B3192



A	530mm	E	480mm
B	89mm	F	121mm
C	320mm	G	141mm
D	370mm	H	44mm

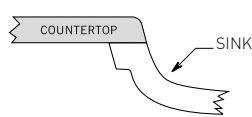
A3148



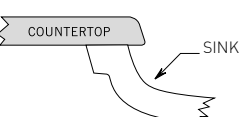
A	376mm	E	350mm
B	175mm	F	97mm
C	35mm	G	115mm
D	376mm	H	44mm

MOUNTING OPTIONS

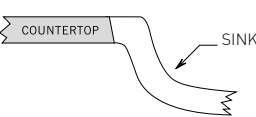
Seam mount



Under mount



Angled mount



STA

TRE

START

STA



STA

The

DIS

The

PERFORMANCE
Properties

EU STANDARDS

PROPERTY	TEST RESULT	UNIT	TEST PROCEDURE
Tensile strength	6,000	psi	ASTM D 638
Tensile modulus	600,000	psi	ASTM D 638
Flexural strength	10,000	psi	ASTM D 790
Flexural modulus	1,000,000	psi	ASTM D 790
Elongation	0.5	%	ASTM D 638
Hardness	92 65	Rockwell "M" Scale Barcol impressor	ASTM D 785 ASTM D 2583
Thermal expansion	2.0x1.0 ⁻⁵	in/in F ⁰	ASTM D 696
Gloss (60 Gardner)	Between 5-20		NEMA LD-3
Color stability	No change-200	hrs	NEMA LD-3
Stain resistance	Passed Rating 41		ANSIZ 124
Abrasion resistance	Passed		ANSIZ 124
Boiling water surface resistance	No effect		NEMA LD-3
High temperature resistance	No effect		NEMA LD-3
IZON Impact resistance (Notched)	0.28ft.	lbf/in	ASTM D 256
Ball drop 1/2" (12 mm) sheet	144" No failure	w/1/2lb ball	NEMA LD-3
Fungi and Bacterial resistance	No growth		ASTM G 21, G22
Specific gravity Solid colors Patterened colors	1.72 1.69		ASTM D 792
Water absorptionw	0.04 0.11	%,(1/2", 24hrs) %,(1/8", 24hrs)	ASTM D 570
Flammability Flame spread Smoke density	Class A/Class 1 10 10		UBC 8-1 ASTM E 84 ASTM E 84
Radiant heat resistance	No visual effect		NEMA LD-3
Toxicity	84.4 (Solid color) 81.8 (Patterned color)	g g	Pittsburgh test protocol (LC50 Test)

EU STANDARDS

PROPERTY		TEST RESULT	UNIT	TEST PROCEDURE
Density		1.74	g/cm³	DIN ISO 1183
Flexual modulus		9030	Mpa	DIN EN ISO 178
Flexual strength		64.5	Mpa	DIN EN ISO 178
Elongation at break		0.83	%	DIN EN ISO 178
Compressive strength		181	Mpa	EN ISO 604
Impact resistance (Spring force)		→25	N	DIN EN 438 -2
Impact resistance (Height)		180	cm	DIN EN 438 -2
Surface hardness[Moh's index]		2-3		DIN EN 101
Abrasion behavior (Lost weight)		0.56	g	ISO 4586 p6
		0.26	%	ISO 4586 p6
Anti-slip properties with 100µm		R9		DIN 51130:2009 -5
Anti-slip properties with 120µm		R9		DIN 51130:2009 -5
Anti-slip properties with 150µm		R9		DIN 51130:2009 -5
Light fastness		→ 6	Blue wool scale	DIN EN 105 -B02
Electrostatic surface resistance		→1x10 ¹²	Ω	EN 61340 -4-1
Electrostatic surface resistivity		960x10 ⁹	Ω	EN 61340 -5-1
Dimensions stability at 20 °C	Dimension	-0.02	mm	DIN ISO 4586 p10
	Gross weight	-0.02	%	
Thermal conductivity		0.53 ~ 0.57	W/(m.K)	DIN EN 12664
Thermal resistance		0.083 ~ 0.092	m².K/W	DIN EN 12664
Thermal expansion		3.6 * 10-5	mm/mm°C	ASTM D 696
Fungal and Bacterial resistance		No growth	-	ASTM G 21, G22
Euroclass for reaction to fire		B-s1 d0	-	EN 13501 -1
Fire properties (British)		class0	-	BS 476 part 6 & 7
Fire properties (Germany)		B1	-	DIN 4102 -1
Fire properties (France)		M2	-	NF P 92 -501





Building on the 50 years of growth we achieved through our ceaseless efforts to push ever further and pursue innovation, we are now bounding ahead yet once more to become a truly lasting centennial company. We will emerge as a company that contributes to the creation of social value and pursues a sustainable future and one that is both beloved and trusted by customers the world over.

At LOTTE, our journey continues to bring our ambitious goal to fruition, as we become a global business that lends itself to the creation of a more flourishing life for all.