

2014 - 2015 New Collection

KCC FLOORING GUIDE BOOK



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2014-2015 New Collection

KCC FLOORING GUIDE BOOK

KCC FLOORING GUIDE BOOK

English Version





Making a Nature Sense

Create a pleasant living environment reminiscent of unspoiled nature.

Stepping Up as a World-class Leader

After 50 years of leading many industries in Korea, KCC has grown to be a world-class leader.

In 1958, Kumgang Slate Industry was founded and has since evolved and taken the lead in technological innovation by utilizing its core corporate competencies consistently. In the present day, KCC reaches from architectural materials, such as glass and windows, interior/exterior materials, decorative flooring materials, to the silicone industry, the next generation of fine chemical products.

KCC, a blue chip company dedicated to developing advanced technology necessary to increase the quality of life, has sustained its growth through transparent, sound and advanced management systems. Now, KCC is prepared to be a leading force among the world's premier chemical companies.



Flooring products by KCC have been produced using the latest production facilities and technologies. KCC Commercial Flooring offers more refined textures and vivid colors than compared with conventional flooring products. Brighten up your world with KCC Commercial Flooring.

KCC Products Introduction

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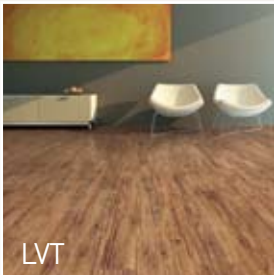
Flooring Categorization	07
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Deluxe Tile / Deluxe King Tile	
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SenseStone / SenseDyna	
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Flooring Product

Flooring is a decorative addition that adds beauty to any interior space in creating a comfortable living environment.

Flooring materials with a natural feel



LVT

Excellent on the feet and highly workable



Carpet Flooring

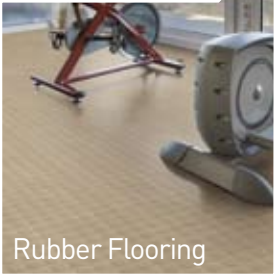
Marble chip's gorgeous patterned and elegant colored flooring



VCT

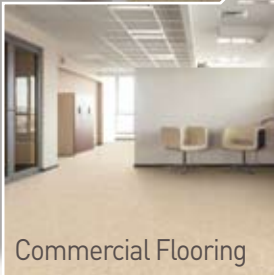
Rubber Flooring

Safe and utilitarian anti-slipping flooring material

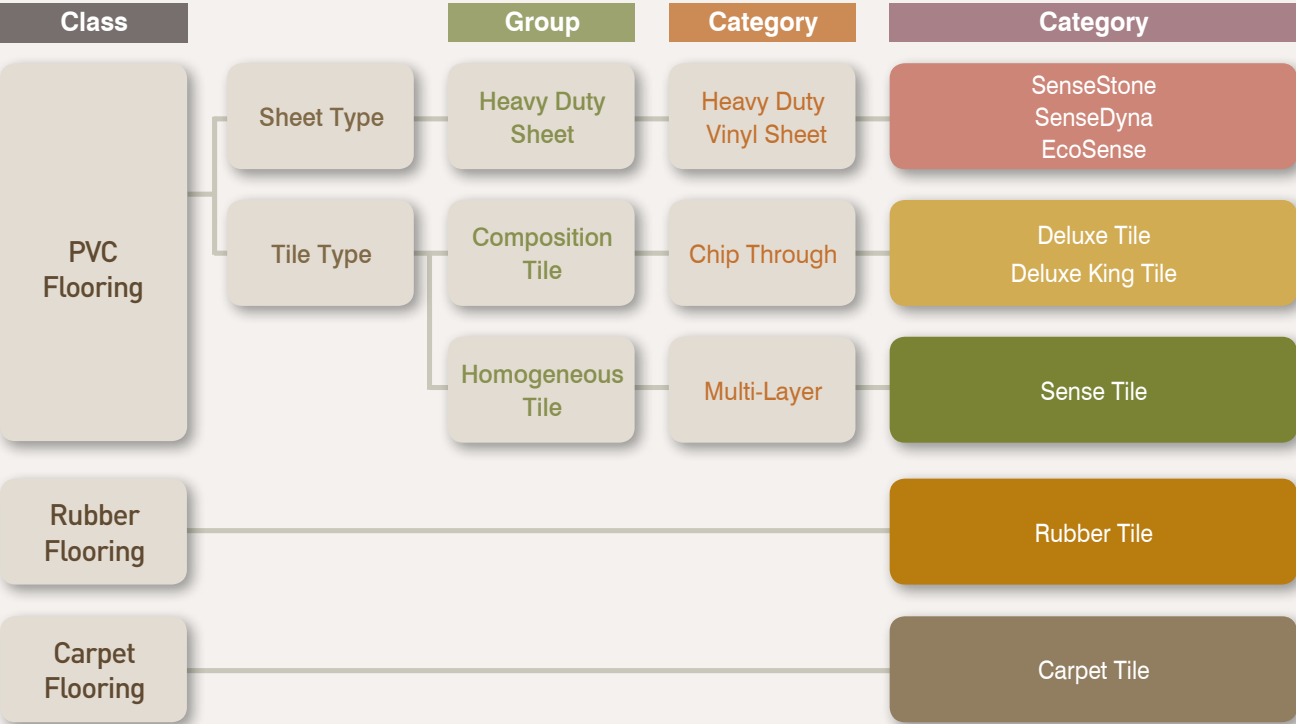


Commercial Flooring

Heavy duty Vinyl Sheet Flooring



Flooring Categorization



- Homogeneous Tile – Bonding agent content of above 30 %
- Composition Tile – Bonding agent content of 30 % of less (Bonding Agent = Comprises of vinyl resin, plasticizer, and stabilizer)
- Multi-Layer – Multiple-layers of various sheets
 - ① Pros – Superior interior effects from a wide variety of colors
 - ② Cons – Inferior durability than chip through structure
- Chip Through = A single-layer structure rolled with chips
 - ① Pros – Outstanding durability, can buff off contaminants
 - ② Cons – Difficult to diversify colors compared to printed products

Performance Requirements





TT 3902G

Soft Wood

180 mm (W) × 920 mm (L)



※ There may be some differences between a printed pattern and a real pattern.



TT 5005G



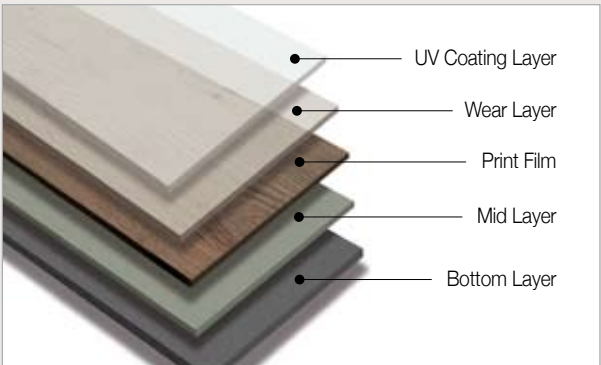
FEATURES

- **Diverse Atmosphere Effects**
Mosaic installation that enables you to create any interior atmosphere you desire.
- **Wide Product Range**
Various designs and differentiated product dimensions for realization of interior spaces to suit one's tastes and preferences.
- **Precision Fit**
Superior dimensional stability for precise assembly angles that create exquisite and clean flooring finishes for various designs.
- **Excellent Physical Properties**
Treated with a UV layer for strong resistance against wear, scratches, and contaminants and for a wide range of both commercial and residential applications.

APPLICATIONS

Residences, offices, businesses, government offices, and other areas requiring refined and durable interior flooring.

COMPOSITIONS



PRODUCT SPECIFICATION

Product		Dimensions (mm)	Thickness (mm)	Packaging (box)	Coverage (m ² /Box)
Sense Tile (Wood)	Soft Wood	180 × 920	3	20 pcs	3.31
	Natural Wood	180 × 920	3	20 pcs	3.31
	Antique Wood	152.4 × 914.4	3	24 pcs	3.34
	Wood	100 × 914.4	3	36 pcs	3.29
	Wide Wood	180 × 920	3	20 pcs	3.31
Sense Tile (General)		600 × 600	3	9 pcs	3.34
	Marble	304.8 × 609.6	3	18 pcs	3.34
		457.2 × 457.2	3	16 pcs	3.34
	Carpet	600 × 600	3	9 pcs	3.34
		457.2 × 457.2	3	16 pcs	3.34
	Steel	600 × 600	3	9 pcs	3.34
	Granite	457.2 × 457.2	3	16 pcs	3.34
	Sand	457.2 × 457.2	3	16 pcs	3.34
	Mortar	457.2 × 457.2	3	16 pcs	3.34
	Solid	457.2 × 457.2	3	16 pcs	3.34
	Ceramic	457.2 × 457.2	3	16 pcs	3.34

SENSE TILE

An Ultra Realistic Vinyl Flooring _ LVT



Natural Wood

180 mm (W) × 920 mm (L)



Antique Wood

152.4 mm (W) × 914.4 mm (L)



※ There may be some differences between a printed pattern and a real pattern.



SENSE TILE

An Ultra Realistic Vinyl Flooring _ LVT



TT 2026G

Wood

100 mm (W) × 914.4 mm (L)

TT 2951B

TT 2953B

TT 2955B

TT 2952B

TT 2954B

Wide Wood

180 mm (W) × 920 mm (L)

TT 2025G

TT 2027G

TT 2026G

TT 2028G

※ There may be some differences between a printed pattern and a real pattern.



TT 2025G

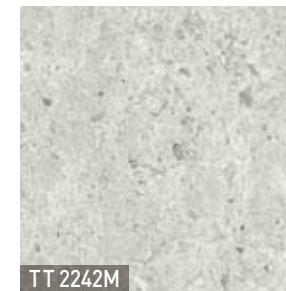
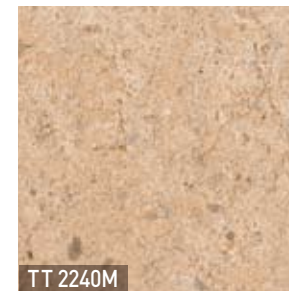
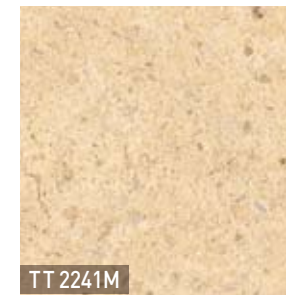
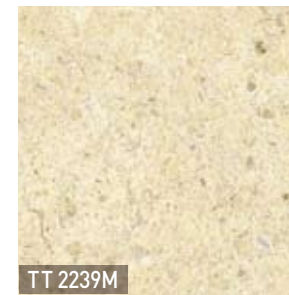
SENSE TILE

An Ultra Realistic Vinyl Flooring _ LVT



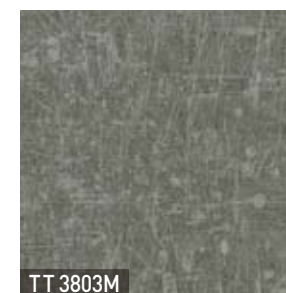
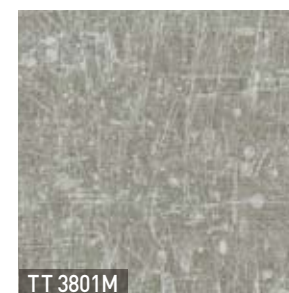
Marble

600 mm × 600 mm



Steel

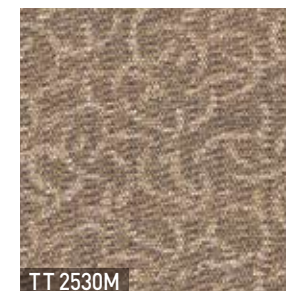
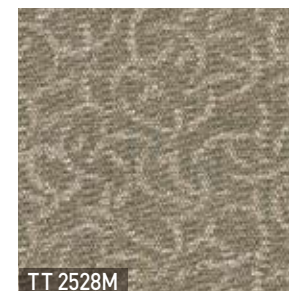
600 mm × 600 mm



※ There may be some differences between a printed pattern and a real pattern.

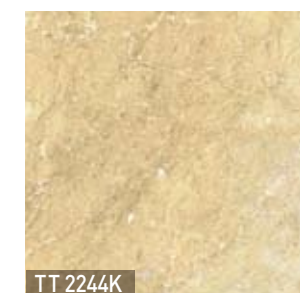
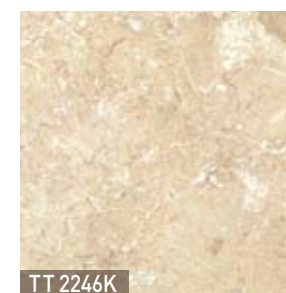
Carpet

600 mm × 600 mm



Marble

304,8 mm × 609,6 mm



SENSE TILE

An Ultra Realistic Vinyl Flooring _ LVT

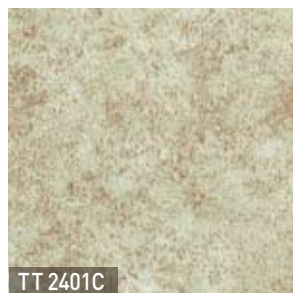


Ceramic

457,2 mm (W) × 457,2 mm (L)



TT 2423C



TT 2401C



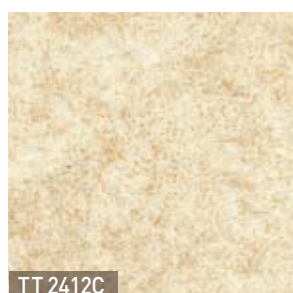
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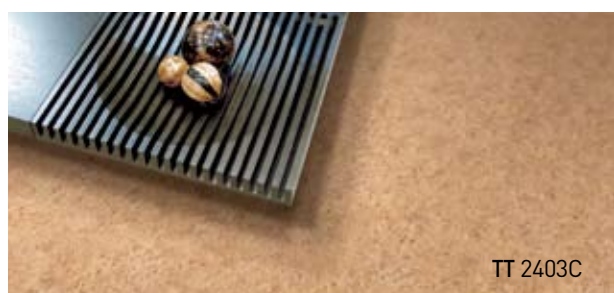
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TT 2407C



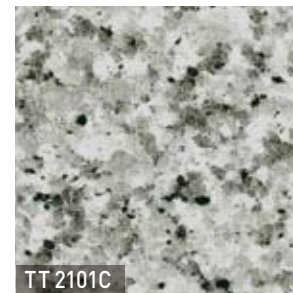
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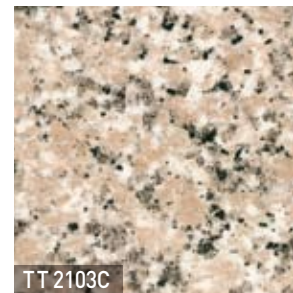
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Granite

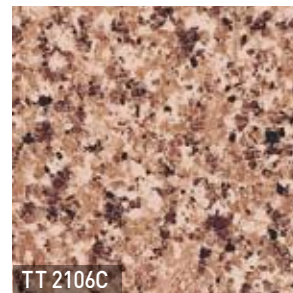
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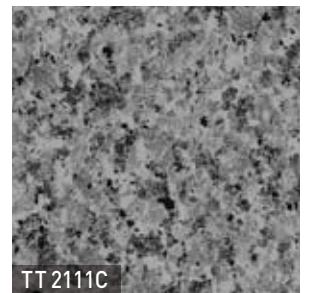
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TT 2103C



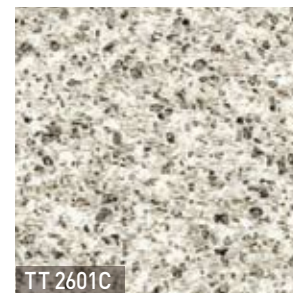
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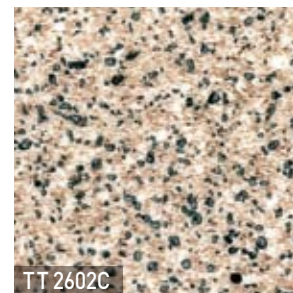
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Sand

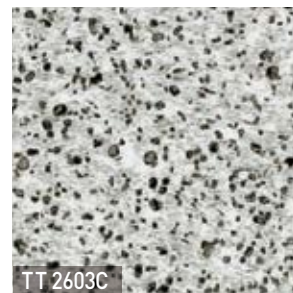
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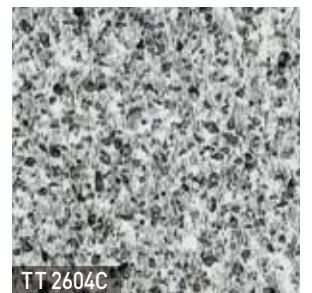
TT 2601C



TT 2602C



TT 2603C



TT 2604C

Carpet

457,2 mm (W) × 457,2 mm (L)



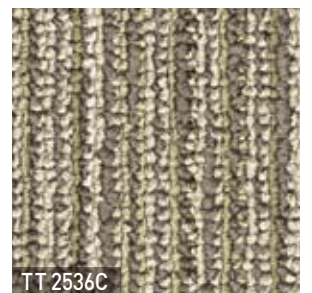
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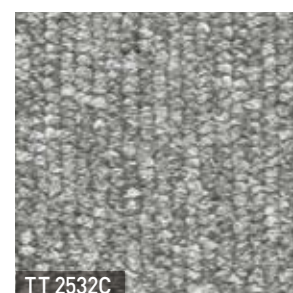
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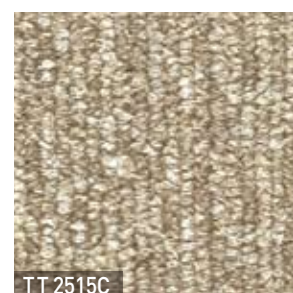
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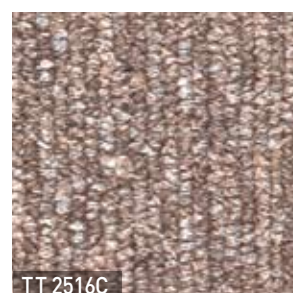
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TT 2532C



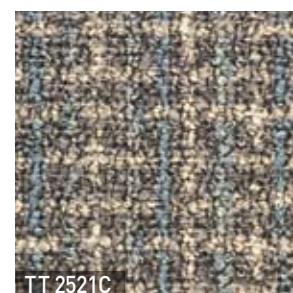
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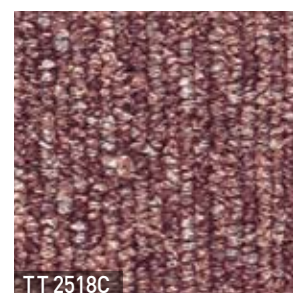
TT 2516C



TT 2517C



TT 2521C



TT 2518C



TT 2522C



TT 2523C

※ There may be some differences between a printed pattern and a real pattern.

SENSE TILE

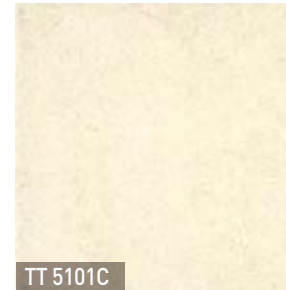
An Ultra Realistic Vinyl Flooring _ LVT



TT 2248C / TT2249C

Mortar

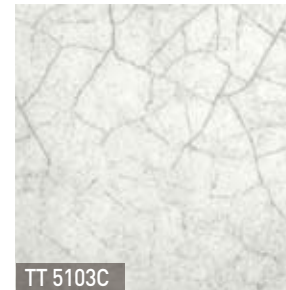
457.2 mm (W) × 457.2 mm (L)



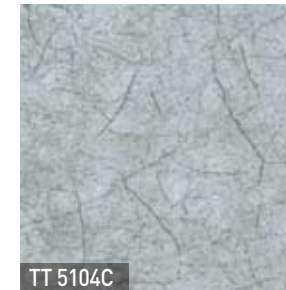
TT 5101C



TT 5102C



TT 5103C



TT 5104C

Solid

457.2 mm (W) × 457.2 mm (L)



TT 2301C



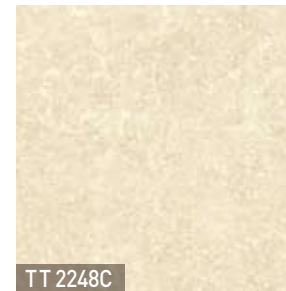
TT 2302C



TT 5104C

Marble

457.2 mm (W) × 457.2 mm (L)



TT 2248C



TT 2250C



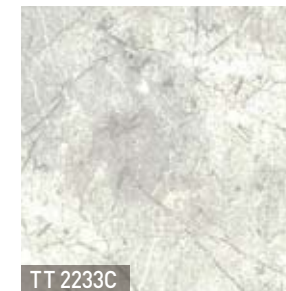
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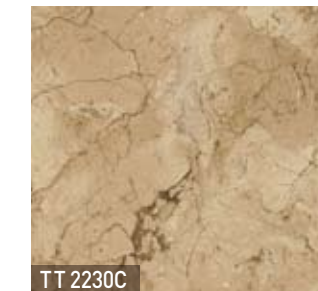
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TT 2233C



TT 2232C



TT 2230C

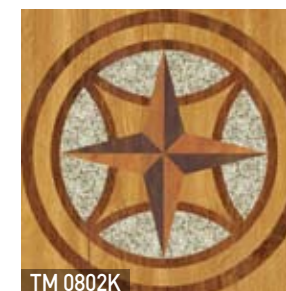
※ There may be some differences between a printed pattern and a real pattern.

Mosaic

K : 4 pcs/pattern, L : 9 pcs/pattern, M : 16 pcs/pattern



TM 0801K



TM 0802K



TM 0803K



TM 0804K

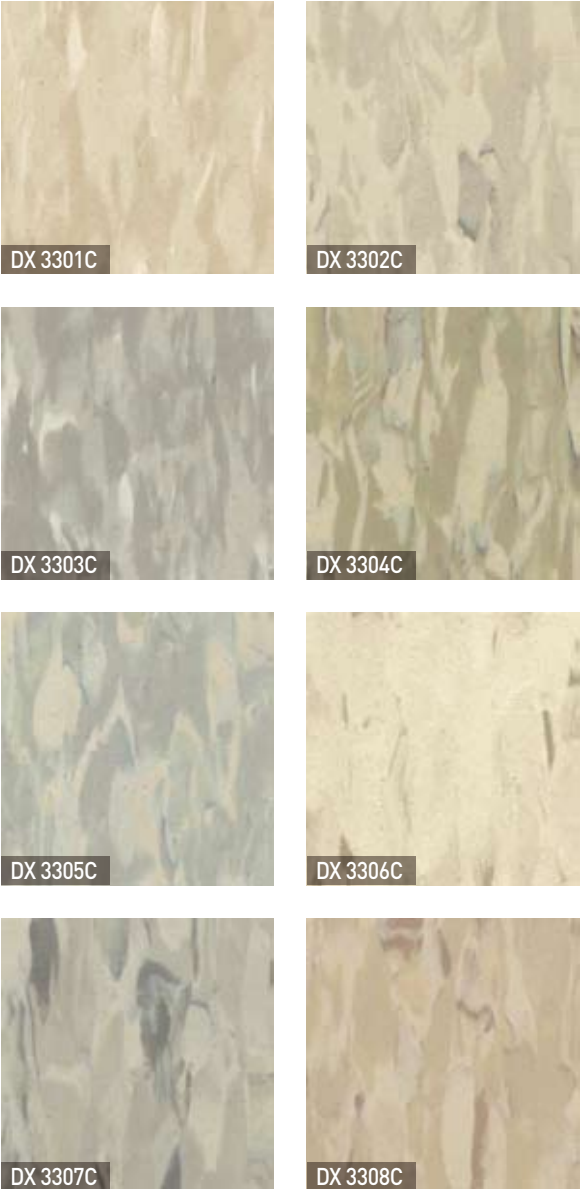
DELUXE TILE

Marble chip's gorgeous patterned
and elegant colored flooring _ VCT



Deluxe / Deluxe King

Deluxe : 300 mm (W) × 300 mm (L) / Deluxe King : 450 mm (W) × 450 mm (L)



※ There may be some differences between a printed pattern and a real pattern.



SENSESTONE / SENSEDYNA



FPN36011



FPN32111



FPN32011



FPN36011



FPN35211



FPN35011

※ There may be some differences between a printed pattern and a real pattern.

SenseStone

1,830 mm(W) × 20 M (L)



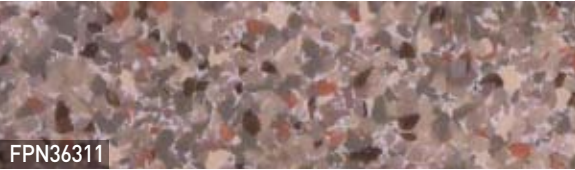
FPN32311



FPN36111



FPN32211



FPN36311



FPN35111



FPN36211



FPN36411

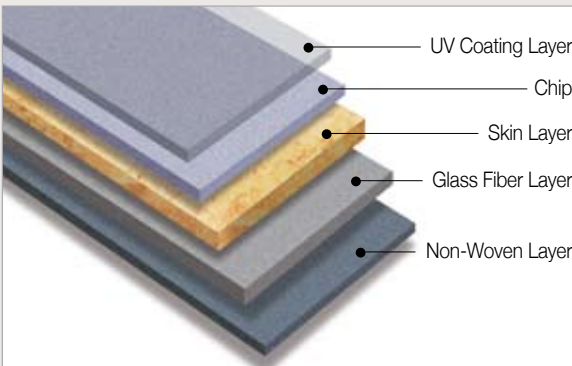
FEATURES

- ▶ **Superb Durability**
Chip inlaid to assure uniformity of pattern and color throughout the entire product.
- ▶ **Excellent Dimensional Stability**
Includes a special fiber layer that prevents heat-and moisture-induced shrinkage.
- ▶ **Various Interior Effects**
Pattern match installation produces brilliant flooring finishes.
- ▶ **Superior Antibacterial Performance**
Features an antibacterial finish for easier cleaning and maintenance.

APPLICATIONS

Offices, businesses, educational institutions, government offices, and other areas requiring refined interior finish and long-term durability.

COMPOSITIONS



PRODUCT SPECIFICATION

Thickness (mm)	Width (mm)	Length (mm)
2	1,830	20



FPN36111

COMMERCIAL FLOORING

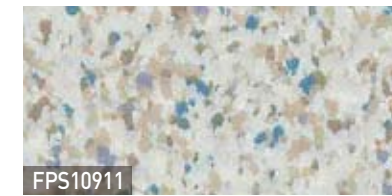
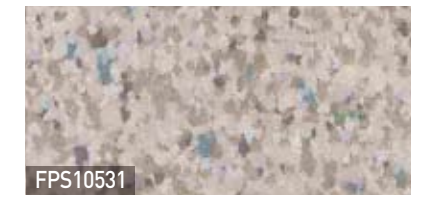
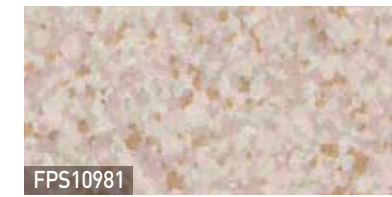
Highly Tactile and Vivid Flooring _
Commercial Flooring

SENSESTONE / SENSEDYNA



SenseDyna

1,830 mm (W) × 20 M (L)



※ There may be some differences between a printed pattern and a real pattern.



ECO SENSE

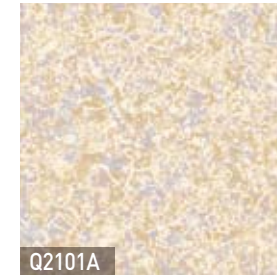
Highly Tactile and Vivid Flooring _
Commercial Flooring



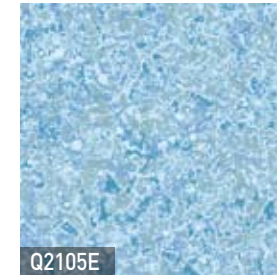
Q2117Q

Eco Sense

1,830 mm (W) × 20 M (L)



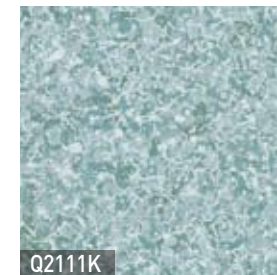
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Q2105E



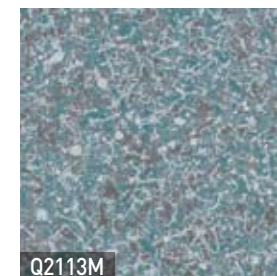
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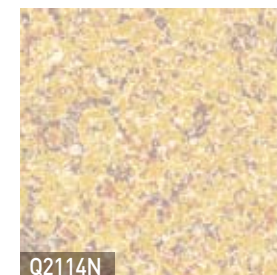
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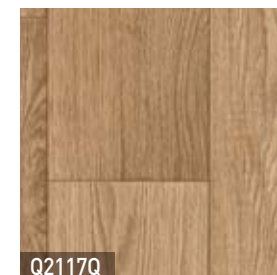
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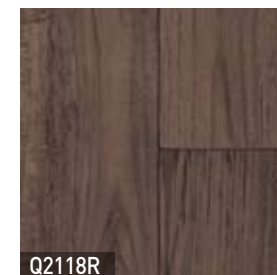
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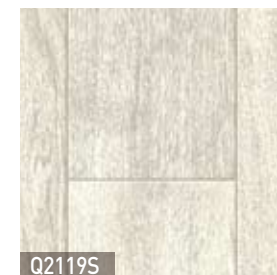
Q2114N



Q2117Q



Q2118R



Q2119S

※ There may be some differences between a printed pattern and a real pattern.

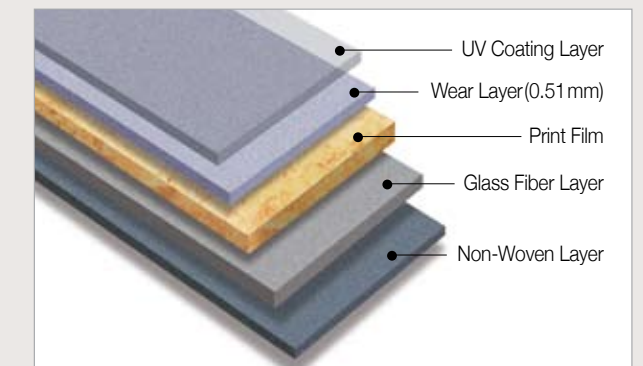
FEATURES

- ▶ **Superb Durability**
Adopting the thick wear layer for excellent durability and wear resistance to heavy traffic and abrasion.
- ▶ **Dimensional Stability**
Highly durable from heat or outside pressure by laminating strong fabric.
- ▶ **Excellent Physical Properties**
Treated with a UV layer for strong resistance against wear, scratches, and contaminants.

APPLICATIONS

Hospital, office, school, fitness club, gym, asylum, shops, shopping mall, and so forth.

COMPOSITIONS



PRODUCT SPECIFICATION

Thickness (mm)	Width (mm)	Length (mm)
2.2	1,830	20



Q2114A

RUBBER TILE

A practical Non-Slip Flooring _ Rubber Tile



Stair Treads



Standard	
3T	K – 480 mm×1,200 mm G – 480 mm×1,200 mm H – 480 mm×1,500 mm
5T	J – 480 mm×1,800 mm D – 480 mm×2,100 mm M – 480 mm×2,400 mm

Round

500 mm (W) × 500 mm (L)



Mono

500 mm (W) × 500 mm (L)



Round Chip

500 mm (W) × 500 mm (L)



Simple Chip

500 mm (W) × 500 mm (L)



Marble

500 mm (W) × 500 mm (L)



Marble Spot

500 mm (W) × 500 mm (L)

※ There may be some differences between a printed pattern and a real pattern.

FEATURES

- **Various Interior Effects**
Monochromatic, mosaic, and pattern applications are available to create the desired interior effect.
- **Superb Physical Properties**
Produced by thermo compression bonding synthetic rubber for unsurpassed durability and wear-resistance.
- **Non-Slip**
Non-slip finish for greater safety and standalone application on stairs.
- **Outstanding Flexibility**
Rubber's natural flexibility for sound absorbing and cushioning properties.

APPLICATIONS

Offices, businesses, schools, sports centers, government offices, and other applications requiring refined and durable interior flooring, particularly those applications requiring non-slip feature (However, Rubber Tile may not be installed flame retardant performance requirement areas such as emergency staircases).

PRODUCT SPECIFICATION

Product	Dimensions (mm)	Thickness (mm)	Packaging (box)	Coverage (m ² /Box)
Round	500 x 500	3.0 / 4.0	16 pcs	3.31
Round Chip	500 x 500	3.0 / 4.0	16 pcs	3.34
Simple Chip	500 x 500	3.0	16 pcs	3.31
Mono	500 x 500	3.5	16 pcs	3.29
Marble / Marble Spot	500 x 500	3.0	16 pcs	3.31
Stair Treads	480 x 1,200	5.0	Packaged depending on order quantity	
	480 x 1,200	5.0		
	480 x 1,500	5.0		
	480 x 1,800	5.0		
	480 x 2,100	5.0		
	480 x 2,400	5.0		



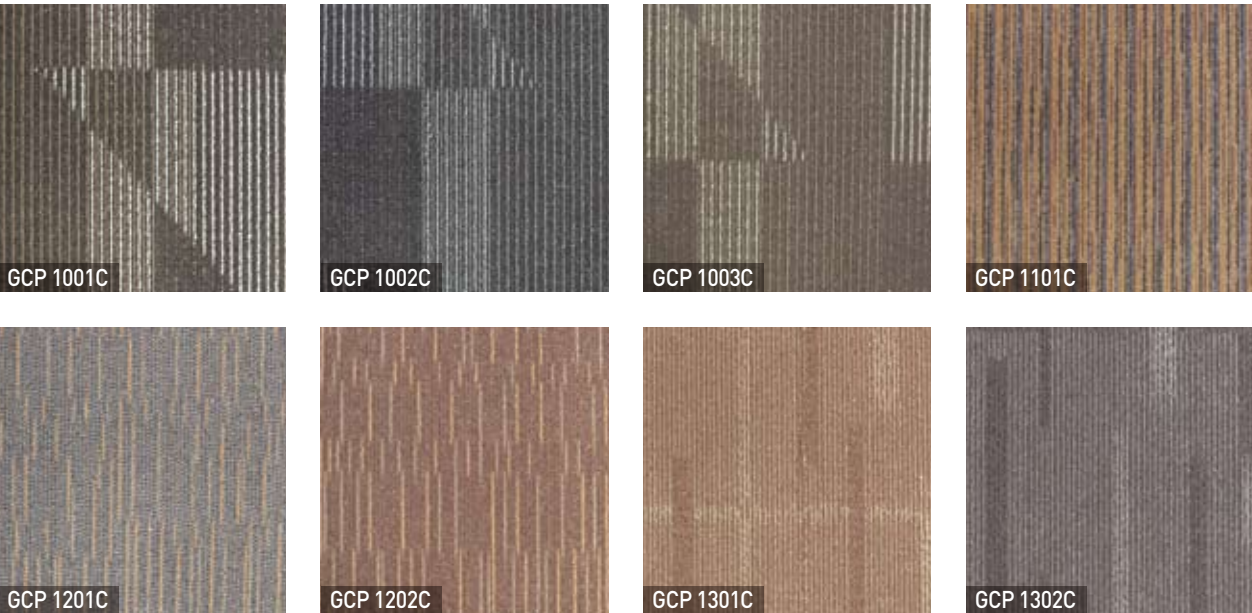
GRM 3021

CARPET TILE

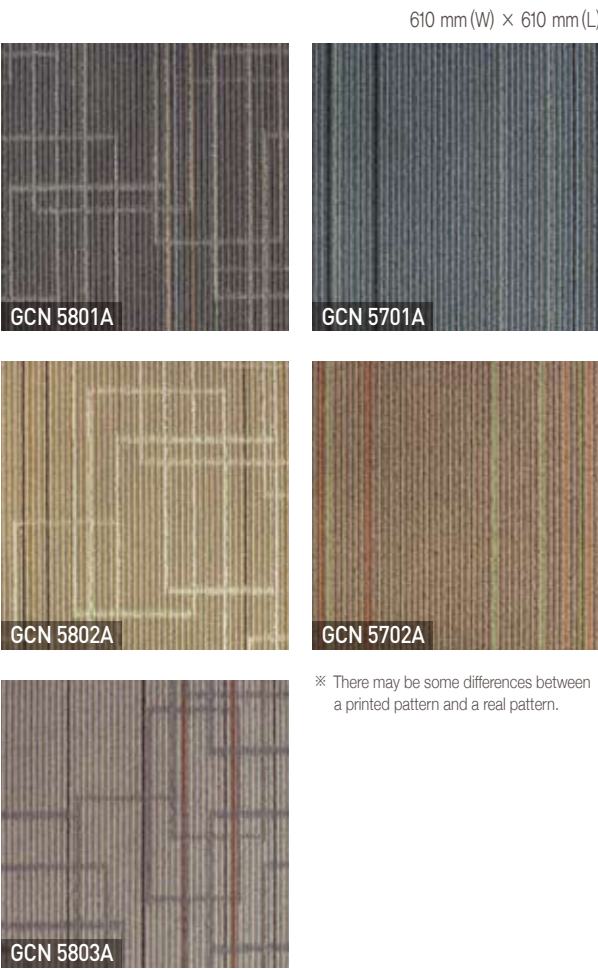
Delicate and Graceful Interior Flooring _
Carpet Tile



Cozy



Shaw (Green Label Plus)



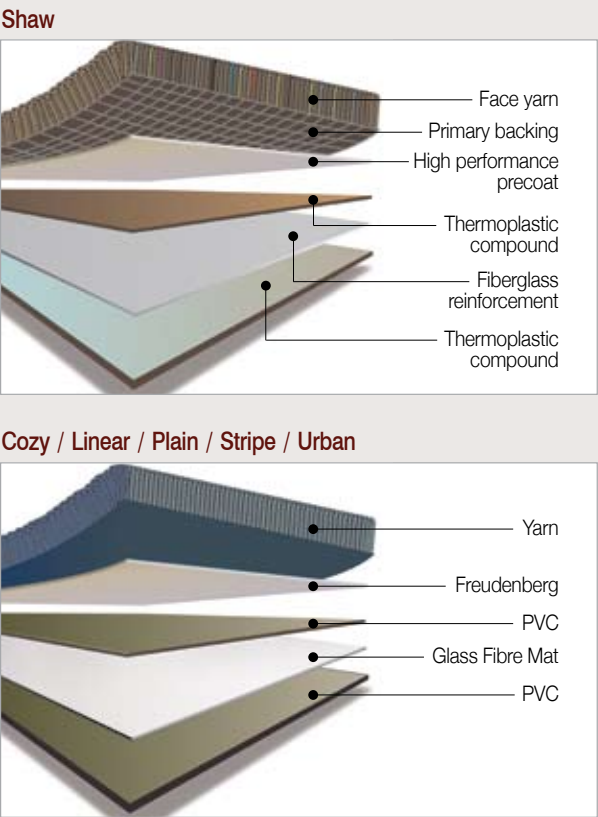
FEATURES

- **Designing**
Various texture such as plain pattern stripe for elegant interior.
- **Functioning**
Excellent comfort of functioning for cushioning, soundproof, warming, graceful interior design, silence, fuel expenses reduction, and easy installation / removal.
- **PEnvironmental friendly quotation (Shaw Only)**
NSF 140-2007e, Green Label + Green Label Plus CRI, certified by LEED (Leadership in Energy and Environmental Design).

APPLICATIONS

RFinishing OA Floor / Offices / Hotels / Financial facilities (VIP room, Door way, Guest room).

COMPOSITIONS



PRODUCT SPECIFICATION

Product	Dimensions (mm)	Thickness (mm)	Packaging (box)	Coverage (m ² /Box)
Shaw	610 × 610	6.5	12 pcs	4.5
Cozy / Linear / Plain / Stripe / Urban	500 × 500	6.5 / 7.5	20 pcs	5.0

CARPET TILE

Delicate and Graceful Interior Flooring _
Carpet Tile



GCN 5101C

Linear

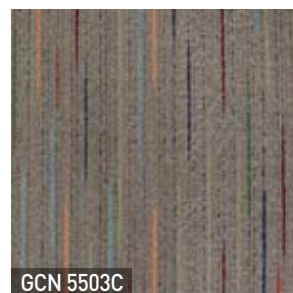
500 mm (W) × 500 mm (L)



GCN 5501C



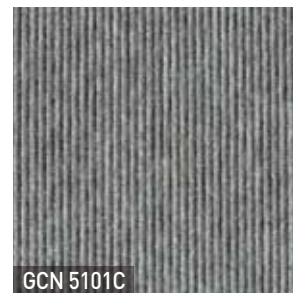
GCN 5502C



GCN 5503C

Stripe

500 mm (W) × 500 mm (L)



GCN 5101C



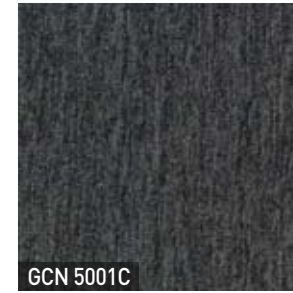
GCN 5102C



GCN 5103C

Plain

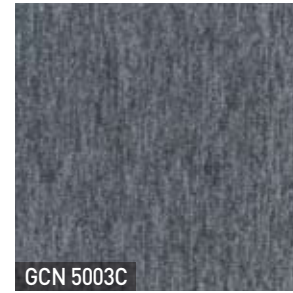
500 mm (W) × 500 mm (L)



GCN 5001C



GCN 5002C



GCN 5003C



GCN 5004C



GCN 5005C



GCN 5006C

Urban

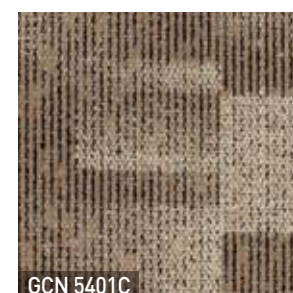
500 mm (W) × 500 mm (L)



GCN 5201C



GCN 5202C



GCN 5401C



GCN 5402C



GCN 5301C



GCN 5302C



GCP 1101C

※ There may be some differences between a printed pattern and a real pattern.

SPECIFICATIONS

SENSE TILE / DELUXE(KING) TILE

Category		Standard		Note
		Luxury Vinyl Tile - Sense Tile	Vinyl Composition Tile - Deluxe(King) Tile	
Length		± 0.1 %	± 0.1 %	KS F 3802
Width		± 0.1 %	± 0.1 %	
Thickness		± 0.15 mm	+ 0.15 mm / - 0.10 mm	
Verticality		Below 0.20 mm	Below 0.20 mm	
Indentation	20 °C	Above 0.25 mm	Above 0.15 mm	
	45 °C	Below 1.20 mm	Below 0.80 mm	
Residual Indentation		Below 8.0 %	Below 8.0 %	
Weight Loss on Heating		Below 0.5 %	Below 0.5 %	
Contamination Resistance		No Defects	No Defects	
Dimensional Stability by Heating	T.D.	Below 0.10 %	Below 0.18 %	
	M.D.	Below 0.10 %	Below 0.15 %	
Dimensional Stability by Water Absorption	T.D.	-	Below 0.18 %	
	M.D.	-	Below 0.15 %	

COMMERCIAL FLOORING

Category		TEST Results - Commercial Flooring			Note
		EcoSense	SenseStone	SenseDyna	
General Property ASTM F 1303	Product Specification	Type I / Grade1	Type II / Grade2	Type II / Grade2	ASTM F 1303
	Wear Layer Thickness	0.51 mm (polyurethane)	1.2 mm	1.0 mm	ASTM F 410
	Static Load Limit	0.050 mm	0.053 mm	0.033 mm	ASTM F 970
	Flexibility (Mandrel Dia 1/2")	No Change	No Change	No Change	ASTM F 137
	Chemical Resistance	No Change	No Change	No Change	ASTM F 925
	Residual Indentation	0.10 mm	0.03 mm	0.06 mm	ASTM F 1914
	Overall Thickness	2.33 mm	2.10 mm	2.02 mm	ASTM F 386
Fire Test	Critical Radiant Flux	0.80 Watts / cm²	0.66 Watts / cm²	0.54 Watts / cm²	ASTM E 648
	Smoke Density	427 Dm corr.	388 Dm corr.	206 Dm corr.	ASTM E 662
Slip Resistance		0.7	-	-	ASTM D-2047-93
Resistance to Heat		ΔE: 3.20	-	-	ASTM F 1514
Resistance to Light		ΔE: 5.1	-	-	ASTM F 1515

RUBBER TILE

Category		Standard - Rubber Tile	Note
Length		± 0.1 %	KS F 3802
Width		± 0.1 %	
Thickness		± 0.15 mm	
Verticality		Below 0.20 mm	
Dimensional Stability by Heating	T.D.	Below 0.20 %	
	M.D.	Below 0.20 %	
Residual Indentation		Below 20.0 %	KS M 6518
Hardness (Type A)		80 ~ 90 ShoreA	
Tensile strenth (Specimen : Dumbbell No.3)		Above 7.8 Mpa	
Elongation		Above 200 %	
Tear strength (specimen : B Type)		Above 24.5 kN/m	
Abrasion resistance		Below 900 mg	ASTM D 4060
Immersion test	5 % HCL	No Defects	KS M ISO 175
	5 % NaOH		
Fire Retardancy	After flame time	Below 20 sec	Standard of Flame retardant performance (KOFEIS 1001)
	Char length	Below 10 cm	

CARPET TILE

Category		Standard - Carpet Tile	Note
Length		± 0.1 %	KS K 2621
Width		± 0.1 %	
Verticality		Below 0.1 %	
Pile Weight		Above 500 g/m²	KS K 0818
Pile Impression Strength		Above 25N	
Thickness Reduction Rate by dynamic load		Below 15 %	
Curling by Heating and Water Absorption		Below 1.3 mm	KS K 2621
Dimensional Stability by Heating and Water Absorption		Below 0.10 %	
Dimensional Stability by Caster Chair		Above 0.15 %	
Electrifying		Above 1.0 Kv	KS K 0650
Friction fastness		Above 4grade	
Consistent Color Fastness		Above 4grade	
HCHO emissions		Less than 0.12 mg/m³h	Chamber method
TVOC emissions		Less than 4.0 mg/m³h	
Toluene emissions		Less than 0.08 mg/m³h	
Fire Retardancy	After flame time	Below 20 sec	Standard of Flame retardant performance (KOFEIS 1001)
	Char length	Below 10 cm	
	Maximum smoke density	Below 400	