



Homecc

HOMECC | Dekoratif
Yüzey Kaplama Filmi



**Ürün Bilgilendirme
Kılavuzu**

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HOMECC | Yüzey Kaplama Filmi

1. GİRİŞ
2. HAZIRLIK
3. KURULUM BİLGİLERİ
4. SERTİFİKALAR

HomeCC Yüzey Kaplama Filmi, iç mekanları ve mobilyaları hızlı bir şekilde kaplayabilen, maliyet açısından uygun, kendinden yapışkanlı bir folyo kaplama olup, gerçekçi desenlere sahip bir ürün yelpazesine sahiptir. HomeCC Yüzey Kaplama Filmi farklı desen, renk ve tasarım seçeneği sunar. HomeCC Yüzey Kaplama Filmi desenleri gerçek doku hissine sahiptir ve mevcut yüzeylere canlılık kazandırır.

Özellikler



uygun maliyetli



hızlı uygulama



kolay kurulum



esnek yapı



sertifikalı



uzun ömürlü



7 yıl garantili



gerçekçi dokular



geniş ürün yelpazesi



operasyonel kolaylık



hijyenik



kişiselleştirilebilir



yangın geciktirici yapı

- **Uygun Fiyatlı:** Geleneksel metodlardan daha ucuzdur
- **Hızlı Uygulama:** Yapışkanlı yapısıyla kolay uygulama
- **Kolay Kurulum:** Kapsamlı yapısal çalışma gerektirmez
- **Esnek Yapı:** Düz yüzeylerle sınırlı değildir, %200'e kadar genişleyebilir
- **Sertifikalı:** Gerekli standartlara tam uygun
- **Uzun Ömürlü:** Sağlam yapılı
- **Garanti:** 7 yıla kadar dayanıklı
- **Gerçekçi Dokular:** Otantik, gerçekçi ve canlı hissiyat
- **Geniş Ürün Yelpazesi:** Onlarca farklı renk, doku ve model
- **Operasyonel Kolaylık:** Operasyonlarınıza ara vermenize gerek kalmaz
- **Hijyenik:** Kolayca temizlenir ve bakımı basittir
- **Kişiselleştirilebilir:** Tamamen baskıya elverişli
- **Yangına Dayanıklı:** Nem ve ısıya dirençli

Ekipmanlar ve Malzemeler



- 1 Astar
 - 2 Fırça
 - 3 Arındırıcı Madde (Alkol, vernik tineri vb.)
 - 4 Bez
 - 5 Plastik Uygulama Aparatı
 - 6 Cetvel
 - 7 El Feneri
 - 8 Maket Bıçağı
 - 9 Toplu İğne
 - 10 Metre
 - 11 Saç Kurutma Makinesi
- Diğer: Zımpara kağıdı, dolgu macunu, maskeleme bandı, eldivenler

Yüzeyin Temizlenmesi ve Hazırlanması

Yüzey	Hazırlık
Genel (Pürüzlü ve hasarlı yüzeyler)	<p>Daha iyi yapışma ve düzgün bir yüzey için pürüzlü yüzeyleri zımparalayın veya macun uygulayarak düzleştirin.</p> <p>İyi yapışan, sert tipte bir macun kullanmanız tavsiye edilir.</p> <p>Tüm yüzeyi macunla kaplamanız gerekiyorsa, tamamen kuruduktan sonra yüzeyi düz hale getirmek için 2-3 kez zımparalayın.</p> <p>Sadece bazı bölgelere düzeltme yapıyorsanız, yüzeye aynı renkte bir macun kullanmaya çalışın.</p>
Genel (Pürüzsüz ve düz yüzeyler)	<p>Uygun yüzey şartlarını yakalamak için yüzeyi su ile temizleyin.</p> <p>Köşelere astar uygulayın ve tamamen kuruduktan sonra filmi yapıştırın.</p>
Ahşap Ürünler	<p>Yüzeydeki hataları (eğer varsa) zımpara ile pürüzsüz hale getirin.</p> <p>Düz olmayan alanlara macun uygulayın ve zımpara ile düzleştirin. Yüzeyi çözücü ile temizleyin.</p> <p>Belirtilen su veya solvent bazlı astarı 2 veya 3 kez uygulayın, her katın kurummasını bekleyin. Astarın tamamen kurummasının ardından filmi yapıştırın.</p>
İşlenmemiş Çelik, Elektrogavanizli Çelik	<p>Pas ve lekeleri önce zımpara ile çıkarın ve yüzeyi çözücüyle temizleyin.</p> <p>Düz olmayan alanlara macun uygulayın ve zımpara ile düzleştirin. Çözücüyle temizleyin.</p> <p>Astarın tamamen kurummasının ardından filmi yapıştırın.</p>
Alüminyum, Paslanmaz Çelik, Boyalı Çelik	<p>Pürüzlü ve kaynak yapılmış alanları zımpara ile düzeltin.</p> <p>Lekeleri çözücü ile çıkarın, pürüzlü ve kaynak yapılmış alanlara macun uygulayın ve zımpara ile düzleştirin.</p> <p>Astarın tamamen kurummasının ardından filmi yapıştırın.</p>

PVC Kaplamalı Çelik	<p>Düşük yapışma ve kabarcık oluşumunu önlemek için yüzeyin iyi durumda olduğunu kontrol edin.</p> <p>Lekeyi çözücü ile çıkarın ve astar uygulayın.</p> <p>Astarın tamamen kurumasının ardından filmi yapıştırın.</p>
Boyalı Yüzey	<p>Yapışma durumu için yüzeye küçük bir parça film yapıştırarak boya türünü ve yüzeyin durumunu test edin.</p> <p>Lekeyi çözücü ile çıkarın ve yüzeyin zarar görmediğinden emin olun.</p> <p>Düz olmayan alanlara macun uygulayın ve zımpara ile düzleştirin.</p> <p>Astarın tamamen kurumasının ardından filmi yapıştırın.</p>
Melamin Kaplamalar, Polyester Kaplı Kaplamalar	<p>Yüzeyi zımpara ile pürüzsüz hale getirin ve lekeleri solvent ile çıkarın.</p> <p>Astarın tamamen kurumasının ardından filmi yapıştırın.</p>
Plastik	<p>Herhangi bir katkı maddesi içeren yüzeylerden kaçınin.</p> <p>Esnek PVC, PP, Naylon ve flor içeren yüzeyler özellikle önerilmez.</p> <p>Leke varsa çözücü ile çıkarın.</p> <p>Astar uygulamaya gerek yoktur. Film doğrudan yapıştırın.</p>

Yüzey Hazırlığı, Depolama ve Taşıma

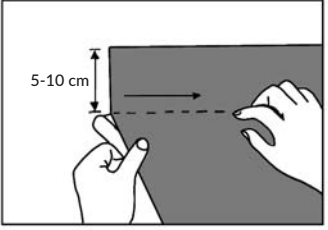
Yüzey	Hazırlık Metodu
Yüzey Durumu	<p>Sıcaklık: Astarlanmamış yüzeylerde maksimum yapışma elde etmek için sıcaklık önemlidir. HomeCC Dekoratif Yüzey Kaplama Filmi, 15-25°C aralığındaki sıcaklıklarda yüzeye uygulanmalıdır. Yüzey sıcaklığı 10°C'nin altındaysa, doğru sıcaklığı sağlamak için infrared lamba, ısıtıcı veya saç kurutma makinesi ile ısıtılmalıdır. Önerilen astar kullanılırsa, filmi 10°C ve üzeri sıcaklıklardaki yüzeye uygulamak mümkündür. Film yüzeye yapıştırıldıktan sonra, saç kurutma makinesi ile ısıtarak yüzeye bastırılmalıdır.</p> <p>Toz ve Kirlenme: Çalışma alanının toz parçacıklarından arındırılmış olması çok önemlidir, çünkü yüzey ve film arasına sıkışan partiküller film yüzeyinde kendini gösterebilir. Çalışma alanının iyi aydınlatılması, yüzeydeki kirlenmeleri veya hava kabarcıklarını tespit etmede yardımcı olacaktır.</p> <p>Güvenlik: Astar ve yüzey sızdırmazlık maddesi yanıcı ve kolay alevlenebilir olduğundan, ısı, kıvılcım veya açık alev kaynaklarına yakın tutulmamalıdır. Çalışma alanı iyi havalandırılmalıdır.</p> <p>Uygulama Masası: Çalışma masası veya tezgah, iç mekan filminin zarar görmemesi için oluklu mukavva veya bir örtü ile kaplanmalıdır.</p>
Depolama ve Taşıma	<p>Önlemler: HomeCC Dekoratif Yüzey Filmi, kuru, serin ve karanlık bir odada saklanmalıdır. HomeCC'nin raf ömrü iki (2) yıldır. Taşıma esnasında mümkün olduğunca üstte taşınarak hasardan korunmalıdır. Kış aylarında depolama ve taşıma sırasında özel dikkat gösterilmelidir, çünkü film sertleşebilir ve hasara karşı daha hassas hale gelebilir.</p>

Düz Alanlarda Kurulum



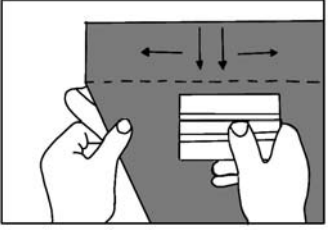
Ölçüm ve Kesme

Filmi düz bir çalışma masasına serin ve yüzeyi ölçün. Her zaman filmi 2-4 cm fazlalık bırakarak kesin.



Yerleştirme

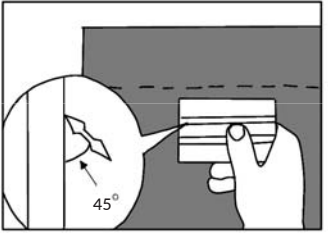
Filmi yüzeyin üzerine yerleştirerek konumlandırmaya başlayın. Koruyucu kağıdı geri çekip katlayın. Filmin yerinde durması için baş parmağınızla hafifçe bastırarak yeterli yapışmayı sağlayın.



Yapıştırma

Adım 1

Filmin altında hava kabarcıkları oluşmasını önlemek için panelin ortasından başlayın. Filmi tamamen yapıştırmak için plastik uygulama aparatıyla baskı uygulayın. Panelin ortasından başlayarak her iki yöne doğru yanlara doğru çalışın. Plastik uygulama aparatını yüzeye 45° açıyla tutun ve sadece tek yönde hareket ettirdiğinizden emin olun.



Adım 2

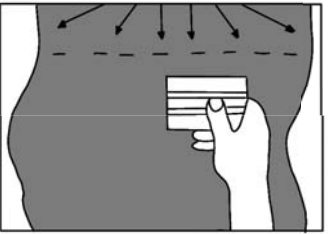
Koruyucu kağıdı her seferinde 300 mm geri çekin. Koruyucu kağıdı çekerken, plastik uygulama aparatıyla yukarıdan aşağıya doğru baskı uygulayın.

Adım 3

HomeCC'yi yüzeye yapıştıktan sonra, plastik uygulama aparatıyla panelin tamamına yukarıdan kenarlara doğru tekrar baskı uygulayın. Panelin kenarlarına özellikle dikkat edilmelidir.

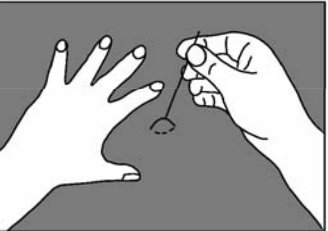
Hava Kabarcığı Giderme

Montaj sırasında filmin arkasında hava sıkışarak bir kabarcık oluşturursa, filmi nazikçe geri çekip plastik uygulama aparatıyla yeniden yapıştırın. Çok küçük hava kabarcıkları, bir toplu iğneyle kabarcığın delinmesiyle giderilebilir. Parmağınızı delik yönüne doğru hareket ettirerek sıkışmış havayı dışarı çıkarın. Maket bıçağı ile fazlalık kısımlarını dikkatlice alın.

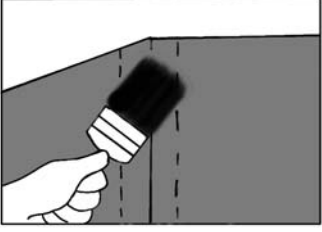


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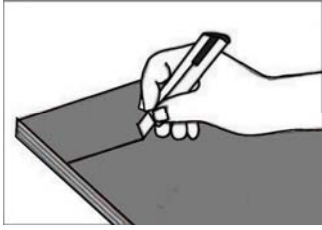


Köşelere Uygulama Prosedürü : İç Köşe İşlemi



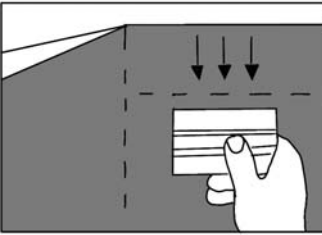
Hazırlık

HomeCC iç köşelere uygulanırken, önce köşeye her yüzeyden en az 50 mm kaplayacak şekilde astar sürün. Bu, maksimum yapışmayı sağlamak için gereklidir.



Ölçüm ve Kesme

Düz paneller için uygulanan yöntemi izleyin.



Yapıştırma

Adım 1

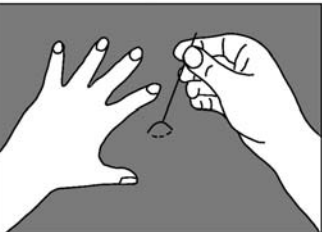
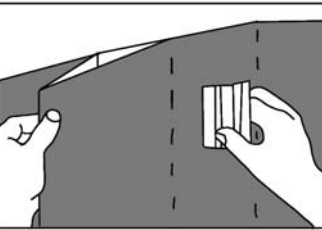
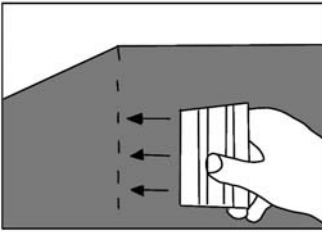
İç köşenin en geniş bölümünden başlayarak filmi uygulayın. Uygulama aparatıyla baskı yaparak filmin kabarmamasını veya düşmemesini sağlayın. Köşe boyunca bastırarak sıkıştırın.

Adım 2

Sıcaklık 20°C'nin altındaysa, filmi uygularken eşit şekilde ısıtın. Aşırı ısıtmayın; bu, filmin kırışmasına neden olabilir.

Adım 3

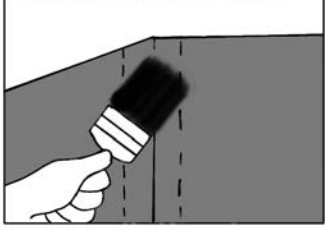
Film köşenin ilk bölümüne yerleştirildikten sonra, filmi nazıkçe kaldırarak çekin ve kalan köşe bölümüne baskı uygulayın.



Hava Kabarcığı Giderme

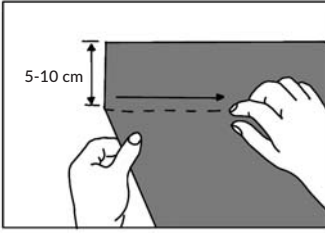
Düz paneller için uygulanan yöntemi izleyin.

Köşelere Uygulama Prosedürü : Dış Köşe İşlemi



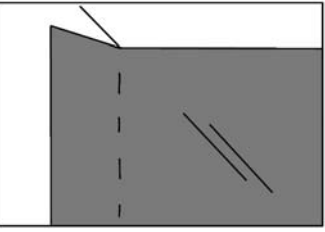
Hazırlık

İç köşeler için uygulanan yöntemi izleyin.



Ölçüm ve Kesme

İç köşeler için uygulanan yöntemi izleyin.



Yapıştırma

Adım 1

Filmi, dış köşeye bitişik geniş bölümden başlayarak uygulayın. Dar köşe bölümündeki koruyucu kağıdı çıkarmayın.

Adım 2

Uygulama aparatıyla baskı yaparak filmin kabarmamasını veya düşmemesini sağlayın.

Köşe boyunca bastırarak sıkıştırın.

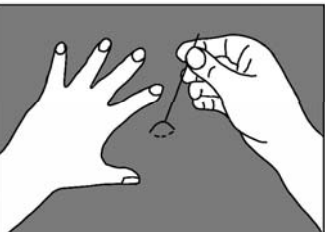
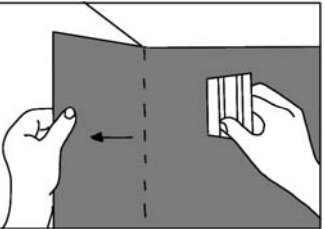
Sıcaklık 20°C'nin altındaysa, filmi eşit şekilde ısıtarak uygulayın. Aşırı ısıtma kırışıklığa yol açabilir.

Adım 3

Düz paneller için kullanılan yöntemle, koruyucu kağıdı her seferinde 200-300 mm olacak şekilde çıkarın. Uygulama aparatıyla baskı yaparken filmi sıkı tutun.

Adım 4

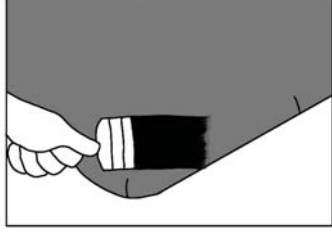
Uygulama tamamlandıktan sonra, özellikle köşelere dikkat ederek plastik uygulama aparatıyla tüm bölüme baskı uygulayın



Hava Kabarcığı Giderme

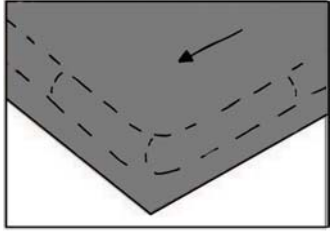
Düz paneller için uygulanan yöntemi izleyin.

Üç Boyutlu Kavisli Yüzeyler İçin Uygulama



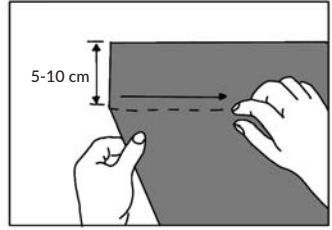
Hazırlık

Tüm yuvarlatılmış veya kavisli kenarlar şekillendirilip zımparalandıktan sonra, kavisli yüzeye ve arka tarafa astar uygulayın. Astar yüzey tarafından kolayca emiliyorsa, kuruduktan sonra yeniden uygulayın..



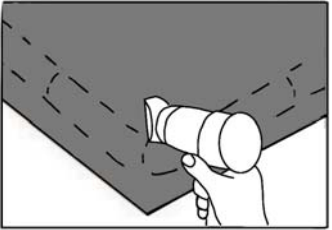
Ölçüm ve Kesme

Yüzeyden 100 mm fazlalık bırakacak şekilde filmi kesin..



Yerleştirme

Düz yüzeyler için uygulanan prosedürü izleyin.



Yapıştırma

Adım 1

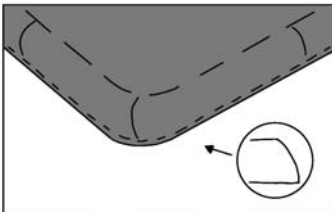
Öncelikle düz alana filmi uygulayın. Kavisli yüzeylere uygulanacak filmi saç kurutma makinesiyle hafifçe ısıtın. Film yumuşadıktan sonra, filmi nazikçe çekerek kavis etrafında sarın.

Adım 2

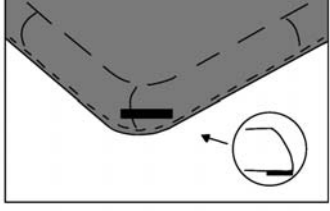
Film yumuşadıktan sonra, (a) bölümünü parmaklarınızla tutarak ok yönünde çekin. Ardından (b), (c), (d) ve (e) bölümlerini köşeden uzaklaşarak çekerek uygulayın. Hava kabarcıklarının oluşmaması veya filmin kırışmaması için yeterli baskı uygulayın.

Adım 3

Filmin kenarlarının soyulmasını ve çekilmesini önlemek için, filmin panelin arka yüzeyine 20-30 mm kadar taşmasını sağlayın.

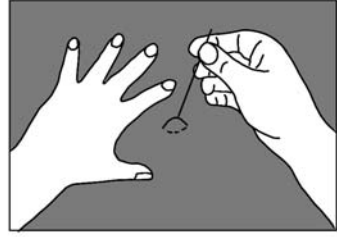


Köşelere Uygulama Prosedürü : Dış Köşe İşlemi



Adım 4

Fazla gelen filmi maket bıçağı ile kesin. Özellikle kavisli kenarda, tüm panele tekrar baskı uygulayın. Filmin köşeden çekilmemesi için köşeye bir zımba ekleyin.

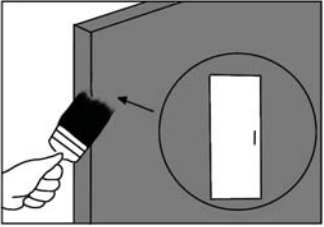


Hava Kabarcığı Giderme

Düz paneller için uygulanan yöntemi izleyin.

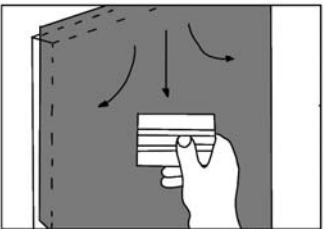
Kapı Yüzeylere Uygulama Prosedürü : Düz Paneller ve Pürüzsüz Kapılar

- HomeCC kapılar üzerine, fabrikada üretimden sonra veya kapının nihai montajından önce iş sahasında uygulanabilir.
- Kapı çerçevesi monte edilmeli ve HomeCC uygulamadan önce gerekli ayarlamalar yapılmalıdır.
- Kapı askıdayken de HomeCC uygulanabilir. Ancak kapıyı çerçeveden çıkararak yatay bir çalışma masasına yerleştirmek ve filmi kapı yatay durumdayken uygulamak daha kolaydır.
- Kilit, kapı kolu gibi donanımları çıkarın ve iş tamamlandıktan sonra tekrar takın.



Hazırlık

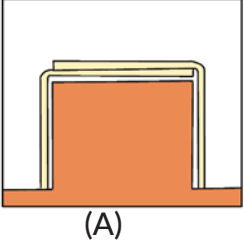
Yüzeydeki toz, yağ veya diğer kirleri tüy bırakmayan bir bez ve tiner ile temizleyin. Yüzeydeki pürüzleri zımpara ile giderin..



Yapıştırma

Yüzeyi temizledikten sonra, özellikle kapının üst kısmına ve kenarlarına astar uygulayın. Düz yüzeyler için verilen talimatlara uygun olarak uygulayın.

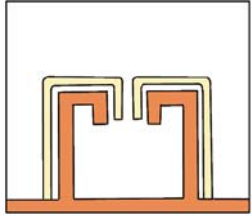
Kapı Yüzeylere Uygulama Prosedürü : Düz Paneller ve Pürüzsüz Kapılar



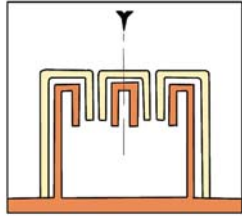
(A)

Düz Panel

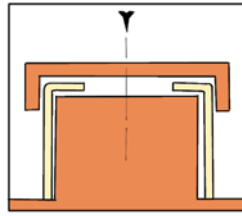
Filmi, kapının üst kısmındaki ek yerinde her iki taraftan üst üste gelecek şekilde uygulayın.



(B)



(C)



(D)

Şekil B

Astarı kapı çerçevesinin yüzeyine uygulamak için uygulama aparatı kullanın. Filmi, plastik uygulama aparatıyla mümkün olduğunca sıkı bir şekilde en az 5 mm derinliğe kadar bastırın.

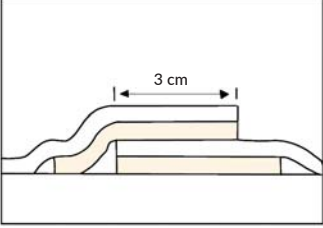
Şekil C

Orta ek yeri, ahşap vida sökülerek ayırın. Film uygulandıktan sonra bu vida tekrar takılabilir. Uygulama aparatı ile filmi mümkün olduğunca sıkı bir şekilde en az 5 mm derinliğe kadar bastırın, Şekil B'deki gibi.

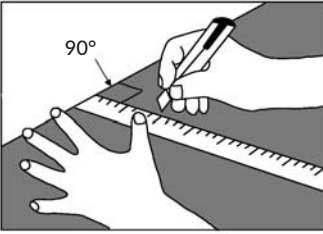
Şekil D

Üstteki kaplamayı çıkarın ve filmin 30 mm fazlalıkla uygulanmasına izin verin. Film uygulandıktan sonra kaplamayı yeniden takın.

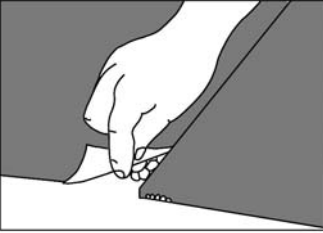
Kapı Yüzeylere Uygulama Prosedürü : Bölme Duvarlarına Uygulama



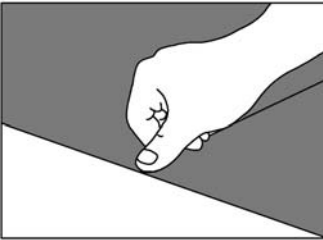
A



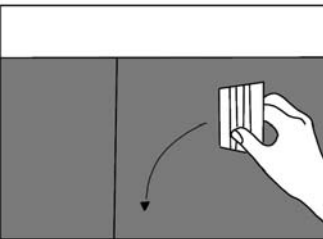
B



C



D



E

Ölçüm ve Kesim

A

Kenarların birleştirilmesi sırasında, HomeCC arkasındaki koruyucu kağıtta 50 mm pay bırakılmalıdır.

Ek yerinin her iki tarafında en az 30 mm fazlalık bırakılmalı, böylece üst üste gelecek şekilde kaplanabilir.

Ek yerindeki küçülmeyi minimize etmek için, HomeCC'nin fazlalıkları kesilmeden önce 24 saat bekletilmesi gerekmektedir.

B

Ek yerinin ortasına bir cetvel yerleştirin.

Her iki film parçasını dikkatlice kesin.

Bıçak ucu filmin dik açısında olmalıdır.

C

Kesilen film parçasını çıkarın.

Ayrıca, yüzeydeki tozları da temizleyin.

D

Şekil C'ye göre koruyucu kağıdı çıkarın.

Film kenarları birbirine sıkıca yapıştıktan sonra, parmağınızın ucu ile yerleştirerek bastırın.

E

Birleştirme kalitesinden memnun kaldıysanız, plastik uygulama aparatıyla üzerine bastırın.

SERTİFİKALAR

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D-91630 Fladungen
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www.brenndrehen.de

Hoch
Fladungen

Prüfinstitut für das Brandverhalten von Bauprodukten, Dipl.-Ing. (FH) Andreas Hoch
Bauaufsichtlich anerkannte Prüf-, Überwachungs- und Zertifizierungsstelle

PB-Hoch-230703
PRÜFBERICHT
zum Nachweis des Brandverhaltens nach EN ISO 11925-2¹⁾
TEST REPORT
on the reaction to fire according to EN ISO 11925-2¹⁾

Auftraggeber
Client: **KCC GLASS Corporation**
587, Gangnam-daero, Seocho-gu
06526 Seoul
REPUBLIC OF KOREA

Probenahme
Sampling: durch den Hersteller
durch den Hersteller

Gegenstand
Subject: **"K5462"**

Beschreibung
Description: Selbstklebende PVC-Folie auf Abdeckpapier, cremefarben, matte Oberfläche.
Self-adhesive PVC film on masking paper with eggshell colour, matte finish.

Ergebnisse
Results: Bei keiner der Proben wurde die max. Flammenhöhe überschritten. Es trat kein brennendes Abtropfen / Abfallen auf.
(Beflammungsdauer 30 s, Beobachtungsdauer 60 s)
The flame threshold was never exceeded in all tests.
None of the tests showed burning droplets.
(Flame exposure period 30 s, total test duration 60 s)

Berichtsdatum
Issue date: 26.06.2023

Dieser Prüfbericht umfasst 4 Seiten. Dieser Prüfbericht stellt keine Klassifizierung des Produkts dar. Für rechtliche Belange ist ausschließlich der deutsche Wortlaut maßgebend.
This test report comprises 4 pages. This test report does not represent a product classification. For legal interests, only the German wording is decisive.

¹⁾ EN ISO 11925-2:2020
Muyden de Cegol
Durch die Deklar. nach DIN EN ISO/IEC 17025 akkreditiertes Prüfverfahren
notified body No. 1538
Die Akkreditierung gilt für die in der Urkunde aufgeführten Prüfverfahren

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Seite 2 von 4 zum Prüfbericht
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1. Probenentnahme / Sampling
Die Proben wurden durch den Hersteller ausgewählt und versandt. Sie erreichten das Prüflabor am 09.02.2023.
The samples were selected and shipped by the manufacturer. They arrived at this laboratory on 09.02.2023.

2. Beschreibung und Eigenschaften des Probenmaterials
Description and properties of the sample material

PN 36657 "K5462"
Selbstklebende PVC-Folie auf Abdeckpapier, cremefarben, matte Oberfläche auf der Sichtseite.
Von der Prüfstelle ermittelte Kennwerte:
Gesamtdicke = 0,39 mm
Dicke von Folie mit Klebstoff = 0,21 mm
Flächengewicht von Folie mit Klebstoff = 258 g/m²
Flächengewicht von Abdeckpapier = 149 g/m²
Gesamtfächengewicht = 407 g/m²

Self-adhesive PVC film on masking paper with eggshell colour, matte finish on the visible side.
Characteristics determined by the laboratory:
Total thickness = 0,39 mm
Thickness of film with adhesive = 0,21 mm
Surface density of film with adhesive = 258 g/m²
Surface density of masking paper = 149 g/m²
Total surface density = 407 g/m²

Weitere Angaben zur Zusammensetzung des geprüften Baustoffes liegen der Prüfstelle nicht vor. Muster sind hinterlegt.
Further details regarding the composition of the test samples are unknown to the laboratory. Retention samples are kept in storage.

3. Herstellung und Vorbehandlung der Probekörper
Preparation and conditioning of the samples

3.1. Probenvorbereitung / Sample preparation
Aus dem gelieferten Material wurden für den Kanten- und Flächentest Proben mit den Abmessungen 250 mm × 90 mm hergestellt.
From the delivered material, samples were cut for edge and surface tests with sizes of 250 mm × 90 mm.
Die Proben wurden gemäß EN 13238:2010 konditioniert und erreichten die Massenkonstanz (Wägungen im Abstand von 24 h zeigten eine Gewichtsabweichung von weniger als 0,1%).
The samples were conditioned in accordance with EN 13238:2010 and reached a constant weight (weight measurements taken 24 h apart yielded mass differences of less than 0,1%).

3.2. Probenanordnung / Arrangement of samples
Aufgeklebt auf Stahlblech gemäß EN 13238 Absatz 5.
Glued onto steel coil according to EN 13238 clause 5.

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4. Versuchsdurchführung / Test procedure
Die Prüfung erfolgte gemäß EN ISO 11925-2:2020.
The tests were carried out in accordance with EN ISO 11925-2:2020.

Probennummer sample ID	Prüfdatum date of test	Beflammungsdauer flame exposure period
PN 36657	04.04.2023	30 s

5. Prüfergebnisse / Test results
Tabelle 1 / Table 1

PN 36657	Kantenbeflammung edge test	Flächenbeflammung surface test
Hinterlegung / substrate	Stahlblech / steel coil	
Versuch Nr. / test #	1 2 3 4 5 6	1 2 3 4 5 6
Seite, Richtung / side, direction	AL AL AQ AQ AL AL AL AL AQ AQ	AL AL AL AL AQ AQ
Entzündung / ignition	X X X X X X	- - - - - -
Beginn der Flammenbildung ¹⁾ start of flaming	[N]	1 1 1 1 1 1
Überschreiten der Messmarke ²⁾ time to exceed the threshold	[N]	- - - - - -
max. Flammenhöhe maximum flame height	[cm]	2 2 1 1 2 1
Zeitpunkt der max. Flammenhöhe ³⁾ time of maximum flame height	[s]	1 1 1 1 4 1
Selbstverlöschchen der Flamme ⁴⁾ self-extinguishing of flames	[N]	7 10 8 18 7 5
Beginn des Glimmers ⁵⁾ begin of smouldering	[N]	7 10 8 4 7 5
Ende des Glimmers ⁶⁾ end of smouldering	[N]	31 31 31 31 31 31
Flammen wurde gelöscht nach ⁷⁾ flames were extinguished after	[N]	- - - - - -
Erlöschen des Filterpapiers ⁸⁾ extinction of filter paper	[N]	- - - - - -
Rauchentwicklung (visuell) smoke development (visual)	gering / low	sehr gering / very low
Das Material ist kegelartig verbrannt/schmolzen bis max. Breite • Höhe The samples were burned/melted in cone shape with a max. width • height		2 cm • 2 cm

¹⁾ Zeit ab Versuchbeginn / time since beginning of test
²⁾ innerhalb 60 Sekunden / within 60 seconds
³⁾ gemäß EN13238 Absatz 5.1 a/c: to EN13238 sect. 5
⁴⁾ Corbrette A: front side A
⁵⁾ Rückseite B / rear side B
⁶⁾ Länge / lengthwise
⁷⁾ quer / crosswise
⁸⁾ Enges aufgetreten / event occurred
⁹⁾ Enges nicht aufgetreten / no occurrence
¹⁰⁾ keine Angabe / no data
¹¹⁾ Aufwindrichtung / upwind direction
¹²⁾ Schwärzung / soot direction
¹³⁾ Eigenflamme Brenner / flame of the burner

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6. Bemerkungen / Remarks
Das Material zeigt kein brennendes Abtropfen/Abfallen gemäß der Definition in EN ISO 11925-2: Absatz 3.3.
The material shows no burning particles / droplets according to the definition in EN ISO 11925-2: clause 3.3.

7. Besondere Hinweise / Additional directions
Die Prüfergebnisse beziehen sich nur auf das Verhalten der Proben von einem Bauprodukt unter den speziellen Prüfbedingungen bei der Prüfung, sie sind nicht als einziges Kriterium zur Bewertung der potentiellen Brandgefahr des Bauproduktes im Anwendungsfall zu verstehen.
The test results only reflect the behaviour of the samples of a building material under the specific test conditions; they are not the only criteria to be considered for evaluating the potential danger of the applied building product in case of fire.
Bei Beurteilung wurden keine Messunsicherheiten der Messergebnisse betrachtet.
No measurement uncertainties of the results were taken into account in the assessment.

Fladungen, 26.06.2023

Sachbearbeiter
Clerk in charge: *Andreas Hoch*
(Dipl.-Ing. (FH) Andreas Hoch)

Leiter der Prüfstelle
Head of test laboratory: *Andreas Hoch*
(Dipl.-Ing. (FH) Andreas Hoch)

SERTİFİKALAR

BEYOND ASIAN HUR. TC'WARD GLOBAL WORLD

TEST REPORT

우 228호 인천광역시 서구 가림동로 68 (가림동)

TEL 0302576-700

FAX 0302575-5613

실적서번호 : TAS-03775

참 조 일 자 : 2017년 04월 27일

대 표 자 : 장영우, 정영익

시험유형별 자 : 2017년 04월 27일

업 체 명 :

소 사 : 서울특별시 서초구 가림동로 344 (가림동)

시 료 명 : 인테라이 뷰링 (영양)

시험 결과

시험항목	단위	시험구분	용량치	시험방법
인산염(인산칼슘) (나로)	N	-	48.8	KS M 3025 : 2010
인산염(인산칼슘) (세로)	N	-	62.1	KS M 3025 : 2010
인산염(인산칼슘) (%)	%	-	231	KS M 3025 : 2010
인산염(인산칼슘) (가로)	N	-	277	KS M 3025 : 2010
칼슘(인산칼슘) (가로)	N	-	20.27	KS M 3025 : 2010
칼슘(인산칼슘) (세로)	N	-	22.70	KS M 3025 : 2010
칼슘(인산칼슘) (%)	%	-	0.1749	KS M 3025 : 2010
DEHP	mg/kg	%	감응인양	KS M 1991 : 2016 (GC/MS)
DBP	%	-	감응인양	KS M 1991 : 2016 (GC/MS)
DEHP	%	-	감응인양	KS M 1991 : 2016 (GC/MS)
인산염 (인산칼슘) (%)	mg/kg	-	KS Q ISO 8124-3 : 2015 (중형)	
(용출) 페놀	mg/kg	-	감응인양	KS Q ISO 8124-3 : 2015 (중형)
(용출) 바릴	mg/kg	-	30	KS Q ISO 8124-3 : 2015 (중형)
(용출) 카드몬	mg/kg	-	감응인양	KS Q ISO 8124-3 : 2015 (중형)
(용출) 코롬	mg/kg	-	감응인양	KS Q ISO 8124-3 : 2015 (중형)
(용출) 나트	mg/kg	-	감응인양	KS Q ISO 8124-3 : 2015 (중형)

- 다음 페이지 -

Park Technic

작성자 : 박영우
E-mail : parkwtr@kr

Yong Seok

가검인양 : 유세
Tel : 1577-0391(SAS Q-80)

2017년 04월 27일

KTR 한국화학융합시험연구원

원본도 확인용 QR Code

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KTRI KOREA TESTING & RESEARCH INSTITUTE

[illegible]



KOREA TESTING & RESEARCH INSTITUTE

RE, Gajaland, No. Seo-gu, Incheon, 22009 Rep. of KOREA

Report No. : TAS-00775

Representative : Chung Min Ji, Chung Mong Ik

Company name : KCC CORPORATION CO., LTD.

Address : 3M, Sangyeong-daero, Seodong-gu, Seoul, Korea

TEL 82-10-5309-7070 FAX 82-10-575-0513

Printed Date : 2017.04.10

Test Completion Date : 2017.04.27

Sample name : interior Film (Reast Printing)

Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Tensile Breaking Load(L.D.)	N	-	48.8	KS M 3505 : 2010
Tensile Breaking Load(M.D.)	N	-	62.1	KS M 3505 : 2010
Elongation(L.D.)	%	-	291	KS M 3505 : 2010
Elongation(M.D.)	%	-	337	KS M 3505 : 2010
Tear Strength(L.D.)	N	-	20.27	KS M 3505 : 2010
Tear Strength(M.D.)	N	-	22.70	KS M 3505 : 2010
Formaldehyde emission	mg/L	-	0.1 below	KS M 2805 : 2010
DBP	%	-	Not Detected	KS M 1991 : 2016 (GC/MS)
DEHP	%	-	Not Detected	KS M 1991 : 2016 (GC/MS)
BEP	%	-	Not Detected	KS M 1991 : 2016 (GC/MS)
Heavy metal migration(Cu)	mg/kg	-	6	KS Q ISO 8104-3 : 2015 (Application)
Heavy metal migration(As)	mg/kg	-	8	KS Q ISO 8104-3 : 2015 (Application)
Heavy metal migration(Ba)	mg/kg	-	32	KS Q ISO 8104-3 : 2015 (Application)
Heavy metal migration(Cd)	mg/kg	-	Not Detected	KS Q ISO 8104-3 : 2015 (Application)

Next Page >

Paid Invoice

Tested by Park Jo-ik

E-mail : junch@ktri.or.kr

Very Good

Testing Manager: You Seok

Tel: 1577-0001(MS-d-61)

2017.04.27

Korea Testing & Research Institute

President *Byun, Jong-Keup*

QR Code for Inquiry





TEST REPORT

66, Gajeong-ro, Seong-gu, Incheon, 22689 Rep. of Korea
 TEL: 02-55-5098-700 FAX: 02-55-576-6163

Report No. : TAS-007775
 Recieved Date : 2017.04.10
 Representative : Chung Mong In, Chung Mong In
 Test Completion Date : 2017.04.27
 Address : #34, Saeyong-dae-ro, Seodang-gu, Seoul, Korea

Sample Name : Interior Film (Resist Printing)

Test Results				
TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Heavy metal migration(Cu)	mg/kg	-	Not Detected	KS G ISO 8124-3 : 2015 (Application)
Heavy metal migration(Pb)	mg/kg	-	Not Detected	KS G ISO 8124-3 : 2015 (Application)
Heavy metal migration(Hg)	mg/kg	-	Not Detected	KS G ISO 8124-3 : 2015 (Application)
Heavy metal migration(Se)	mg/kg	-	Not Detected	KS G ISO 8124-3 : 2015 (Application)
Pb	mg/kg	-	Not Detected	KS M 0038 : 2009
Cd	mg/kg	-	Not Detected	KS M 0032 : 2009

- Method Detection Limit -
 Pb : 5 mg/kg
 Cd : 0.5 mg/kg
 Di-n-butyl phthalate (DBP) : 0.005 %
 Butyl benzoate phthalate (BBP) : 0.005 %
 Diethylhexyl phthalate (DEHP) : 0.005 %
 Heavy metal Migration(Pb, Cu, Cd, Ni, As, Sb, Se, Al) : each 5 mg/kg

* Test condition :
 1. Temperature : 50 ± 2 ℃
 2. Test period : 24 hr
 3. SAMPLE : Interior Film(Resist Printing) (150 mm x 200 mm, 150 mm x 400 mm)
 4. MDL : < HCHO = 0.1 mg/L



Tested by Park Joobok
E-mail : joobok@ktr.or.kr

- Next Page -



Technical Manager You Seok
Tel: 027-0991(ARS 0-46)


2017.04.27

Korea Testing & Research Institute
 President *Byun, Jung-Ro*



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TEST REPORT


01, Gyeonggi-do, Seongju, Incheon, 22691 Rep. of KOREA TEL 82-52-5769-700 FAX 82-53-595-5613

Report No. : TAS-00775
 Representative : Chung Mong-ah, Chung Mong-ik
 Company name : KCC Corporation, CO.,LTD.
 Address : 2M4, Daeyangso-daejeon, Seou, Korea


Sample name : Interior Film (Preset Printing)
 Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
- Usage of Report: QUALITY CONTROL				

NOTE: 1. The test results of the test report are only limited to 1 in the samples and sample names provided by the client and we do not guarantee the quality of all products of the client. You can check website items in or at or QR code and verify the authenticity of the document.
 2. This test report shall be used only within the purpose of its intended purpose and shall not be used for product liability, advertisement and so on.
 3. This test report is only valid when printed on KTR original report paper with hologram and when re-issued by KTR. The copy and the electronic file of the test report are only for reference.



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Technical Manager | You Seek
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2017.04.27

Korea Testing & Research Institute

President *Byun Jong-Jae*



Off Code: KTR0094



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KTR-010-708-F01-001(1)

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A0203 (B)

SERTİFİKALAR

Material Safety Data Sheet

Product Name	İnönü Film VİCENİ	
1. Product and Company Identification		
a. Product name	İnönü Film VİCENİ	
b. Recommended use of the product and restriction on use	Surface finish	
Recommended use of the product	Prohibition of use other than recommended use	
c. Supplier information		
Company name	KCC Glass Corporation	
Address	605-21, Ansan-ro, Yeosu-si, Jeon-si, Chungcheongnam-do, Republic of Korea	
Phone number	+82-41-520-0104	
Fax number	+82-41-545-0818	
2. Hazard Identification		
a. Classification of the substance or mixture	Not Applicable	
b. Label elements	Not Applicable	
Pictograms (see hazard symbols)	Not Applicable	
Signal words	Not Applicable	
Hazard statements	Not Applicable	
Precaution statements	Not Applicable	
Prevention	Not Applicable	
Response	Not Applicable	
Storage	Avoid direct sunlight and store in a well-ventilated place.	
Disposal	Dispose of the contents container according to the contents specified in the relevant laws and regulations.	
c. Other hazards which do not result in classification	N/A	
3. Composition/Information on ingredients		
Common Chemical Name	CAS No.	Content (%)
Polyvinyl Chloride	862-86-2	50-55
Flame Retardant	-	Classified
DPPP (2,2,6,6-tetramethylpiperidin-1-yl)phthalate	5536-54-0	15-20
Stabilizer	-	3-5
Acrylic Copolymer	3028-19-1	20-25
Release paper	Non-Chemical Component	

6. Accidental release measures

a. Personal precautions, protective equipment and emergency procedures	Remove ignition sources.
b. Environmental precautions	Do not allow to enter drains, sewers or water courses.
c. Methods for cleaning up	Dispose of wastes in accordance with relevant regulations. Pick up and transfer to properly labeled containers.

7. Handling and storage

a. Handling	Be careful as the product may be heavy. Lifting, drinking and smoking should be prohibited in areas where this material is handled. Avoid high temperatures. Possible long-term skin contact. Keep containers tightly closed in a dry, cool and well-ventilated place.
b. Storage	Keep away from sparks, flames, and high heat. Pay attention to sharp materials or contamination.

8. Exposure controls and personal protection

a. Control measures	
Chemical regulations	No information
ACGIH regulations	No information
Biological hazard regulations	No information
Other exposure regulations	No information
b. Engineering measures	Not Applicable
c. Personal protection	Not Applicable
Respiratory protection	Not Applicable
Eye protection	Not Applicable
Hand protection	Not Applicable
Skin and body protection	Not Applicable

9. Physical and chemical properties

a. Appearance	Partial discoloration with special pattern
b. Odor	Chemical odor when used
c. Other threshold	No information
d. pH	No information
e. Melting point/freezing point	No information
f. Initial boiling point and range	No information
g. Flash point	No information
h. Vapor pressure	No information
i. Combustion characteristics (solid, gas)	Not Applicable
j. Flammability limit - upper/lower	Not Applicable
k. Vapor pressure	No information
l. Solubility	No information
m. Vapor density	No information
n. Specific gravity	1.2-1.4
o. Partition coefficient (n-octanol/water (K _{ow}))	No information
p. Auto-ignition temperature	No information
q. Decomposition temperature	No information
r. Viscosity	No information
s. Molecular weight	No information

10. Stability and reactivity

a. Chemical stability and hazardous reaction possibility	Stable under normal temperature and pressure conditions. May decompose at high temperatures to produce toxic gases. Non-flammable, the material itself does not burn, but may cause combustion/other effects when heated.
b. Conditions to avoid	Heat, sparks, flames, and high heat
c. Incompatible materials	Combustible material, irritant, and toxic gas
d. Hazardous decomposition products	During burning, pyrolysis or combustion may generate irritating and toxic gases.

11. Toxicological information**a. Information on likely routes of exposure**

Health hazard information	No information
Acute toxicity	
Oral	No information
Inhalation	No information
Subcutaneous	No information
Skin irritation or irritation	No information
Serious eye damage or irritation	No information
Respiratory sensitization	No information
Skin sensitization	No information
Genetic cell mutagenicity	Not classified
Reproductive toxicity	No information
Specific target organ toxicity (single exposure)	No information
Specific target organ toxicity (repeated exposure)	No information
Aspiration hazard	No information
Other adverse effects	No information

12. Ecological information

a. Ecotoxicity	
fishes	No information
Crustaceans	No information
Algae	No information
b. Persistence and degradability	
Persistence	No information
Biodegradability	No information
c. Bioaccumulation	
Bioaccumulation	No information
d. Mobility in soil	No information
e. Other hazardous effects	No information

13. Disposal considerations

a. Disposal regulations	If specified in the Waste Management Act, dispose of the contents and containers according to the regulations.
b. Notes on disposal	Dispose of the contents container (according to the contents specified in the relevant laws and regulations)

14. Transport information

a. UN number	No information
b. Proper shipping name	Not Applicable
c. Transport hazard class	Not Applicable
d. Container grade	Not Applicable
e. Marine pollutant	No information
f. Special safety measures that users need to know about transportation or removal of transport	
Emergency measures in case of fire	Not Applicable
Emergency measures in case of leakage	Not Applicable

15. Regulatory information

a. Regulations by the Industrial Safety and Health Act	Not Applicable
b. Regulations by the Chemical Substance Control Act	Not Applicable
c. Regulations by the Hazardous Materials Safety Control Act	Not Applicable
d. Regulations by the Waste Management Act	Designated waste
e. Regulations by other domestic and foreign laws	
Domestic regulation	
Other domestic regulation	Not Applicable
Foreign regulation	
US Federal Regulations (29 CFR)	Not Applicable
US Federal Regulations (29 CFR 1910.101)	Not Applicable
US Federal Regulations (29 CFR 1910.102)	Not Applicable
US Federal Regulations (29 CFR 1910.103)	Not Applicable
US Federal Regulations (29 CFR 1910.104)	Not Applicable
US Federal Regulations (29 CFR 1910.105)	Not Applicable
US Federal Regulations (29 CFR 1910.106)	Not Applicable
US Federal Regulations (29 CFR 1910.107)	Not Applicable
US Federal Regulations (29 CFR 1910.108)	Not Applicable
US Federal Regulations (29 CFR 1910.109)	Not Applicable
US Federal Regulations (29 CFR 1910.110)	Not Applicable
US Federal Regulations (29 CFR 1910.111)	Not Applicable
US Federal Regulations (29 CFR 1910.112)	Not Applicable
US Federal Regulations (29 CFR 1910.113)	Not Applicable
US Federal Regulations (29 CFR 1910.114)	Not Applicable
US Federal Regulations (29 CFR 1910.115)	Not Applicable
US Federal Regulations (29 CFR 1910.116)	Not Applicable
US Federal Regulations (29 CFR 1910.117)	Not Applicable
US Federal Regulations (29 CFR 1910.118)	Not Applicable
US Federal Regulations (29 CFR 1910.119)	Not Applicable
US Federal Regulations (29 CFR 1910.120)	Not Applicable
US Federal Regulations (29 CFR 1910.121)	Not Applicable
US Federal Regulations (29 CFR 1910.122)	Not Applicable
US Federal Regulations (29 CFR 1910.123)	Not Applicable
US Federal Regulations (29 CFR 1910.124)	Not Applicable
US Federal Regulations (29 CFR 1910.125)	Not Applicable
US Federal Regulations (29 CFR 1910.126)	Not Applicable
US Federal Regulations (29 CFR 1910.127)	Not Applicable
US Federal Regulations (29 CFR 1910.128)	Not Applicable
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US Federal Regulations (29 CFR 1910.135)	Not Applicable
US Federal Regulations (29 CFR 1910.136)	Not Applicable
US Federal Regulations (29 CFR 1910.137)	Not Applicable
US Federal Regulations (29 CFR 1910.138)	Not Applicable
US Federal Regulations (29 CFR 1910.139)	Not Applicable
US Federal Regulations (29 CFR 1910.140)	Not Applicable
US Federal Regulations (29 CFR 1910.141)	Not Applicable
US Federal Regulations (29 CFR 1910.142)	Not Applicable
US Federal Regulations (29 CFR 1910.143)	Not Applicable
US Federal Regulations (29 CFR 1910.144)	Not Applicable
US Federal Regulations (29 CFR 1910.145)	Not Applicable
US Federal Regulations (29 CFR 1910.146)	Not Applicable
US Federal Regulations (29 CFR 1910.147)	Not Applicable
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US Federal Regulations (29 CFR 1910.332)	

SERTIFIKALAR

Prüfinstitut Hoch
Leitweg 1
D-97430 Fladungen
Tel: 09771-1400-200
hoch-fladungen@t-online.de
www.brennverhuen.de

Hoch
Fladungen

KB-Hoch-230705
KLASSIFIZIERUNGSBERICHT
Klassifizierung des Brandverhaltens nach EN 13501-1
CLASSIFICATION REPORT
Reaction to fire classification according to EN 13501-1

Auftraggeber
Client: **KCC GLASS Corporation**
587 Gangnam-daero, Seocho-gu
06526 Seoul
REPUBLIC OF KOREA

Gegenstand
Subject: **"KS462"**

Beschreibung
Description: Selbstklebende PVC-Folie auf Abdeckpapier, cremefarben, matte Oberfläche
Self-adhesive PVC film on masking paper with eggshell colour, matte finish

Klassifizierung
Classification: **C – s2,d0**

Berichtsdatum
Issue date: 26.06.2023

Geltungsdauer
Validity: 31.10.2028¹⁾ (siehe Abschnitt 5.1 / refer to section 5.1)

1) EN 13501-1:2018
1) Übertragung auf Antrag / Application on request
Wird der vorgelieferte Text nicht vollständig genutzt, ist die Anwendung für die in der Tabelle aufgeführten Prüfverfahren gültig.
Durch die DAK nach DIN EN ISO/IEC 17025 akkreditiertes Prüfinstitut
Die Akkreditierung gilt für die in der Tabelle aufgeführten Prüfverfahren.

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page 2 of 5 of classification report
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1. Einführung / Introduction
Dieser Klassifizierungsbericht zum Brandverhalten definiert die Klassifizierung, die dem Bauprodukt in Übereinstimmung mit den Verfahren nach EN 13501-1 2018 zugeordnet wird.
This classification report defines the classification assigned to the construction product in accordance with the procedures given in EN 13501-1 2018.

2. Beschreibung des Bauprodukts / Description of the construction product
Das Produkt wird in dem in Punkt 3.1 aufgeführten Prüfberichten, die der Klassifizierung zugrunde liegen, vollständig beschrieben. Dabei wurde das Produkt mit den folgenden Produktparametern getestet.
The product is fully described in the test reports in support of this classification listed in section 3.1. The product was tested adhering to the following product parameters:

Parameter	Value
Gesamtdicke Total thickness	0,39 mm
Dicke von Folie mit Klebstoff Thickness of film with adhesive	0,21 mm
Flächengewicht von Folie mit Klebstoff Surface density of film with adhesive	258 g/m²
Flächengewicht des Abdeckpapiers Surface density of masking paper	149 g/m²
Gesamtflächengewicht Total surface density	407 g/m²
Farbe Colour	cremefarben eggshell

Das Produkt erfüllt nach Angaben des Auftraggebers keine harmonisierte europäische technische Spezifikation (z.B. Produktnorm oder EAD).
According to the applicant, the product is not compliant with any harmonised European technical specification (e.g. product standard or EAD).

3. Prüfberichte und Prüfergebnisse als Grundlage dieser Klassifizierung
Test reports and test results as a basis for this classification

Name des Labors Name of laboratory	Auftraggeber Client	Prüfverfahren Test method	Prüfbericht, Datum Test report, date
Prüfinstitut Hoch	KCC GLASS Corporation 587 Gangnam-daero, Seocho-gu 06526 Seoul REPUBLIC OF KOREA	EN ISO 11925-2 (Einzelbrennprobe) single flame source test	PIB-Hoch-230703 26.06.2023
Prüfinstitut Hoch	KCC GLASS Corporation 587 Gangnam-daero, Seocho-gu 06526 Seoul REPUBLIC OF KOREA	EN 13823 (SB)	PIB-Hoch-230704 26.06.2023

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3.2. Prüfergebnisse / Test results

Prüfverfahren Test method	Parameter Parameter	Anzahl der Prüfungen Number of tests	Prüfergebnisse Test results	Anforderung für C – s2,d0 Requirement
EN ISO 11925-2	F ₁ ≤ 150 mm Flammenausbreitung höchstens 150 mm Flame spread no more than 150 mm Brennendes Abtropfen Flaming droplets	12	max. 20 mm ja yes nein no	erfüllt compliant erfüllt compliant

F₁: Maximale vertikale Flammenausbreitung (mm)
Maximum vertical flame spread (mm)

Tabelle 1: Prüfergebnisse der Kleinbrennprobe / Result of single-flame source test

Prüfverfahren Test method	Parameter Parameter	Anzahl der Prüfungen Number of tests	Prüfergebnisse (Mittelwert) Test results (average value)	Anforderung Requirement
FIGRA ₂₀₀	169 W/m	A2/B: ≤ 120 W/m		
FIGRA ₄₀₀	114 W/m	C: ≤ 250 W/m		
THR ₃₀₀₀	1,3 MJ	A2/B: ≤ 7,5 MJ		
SMOORA	48 mJ/g	s1: ≤ 30 mJ/g		
TSP ₃₀₀₀	96 mJ	s2: ≤ 180 mJ/g		
FDP	d0	s1: ≤ 50 mJ		
LSF	erfüllt	s2: ≤ 200 mJ		

Kriterien:
FIGRA₂₀₀: Flammwachstumsrate (W/m) nach Erreichen des THR-Schwellenwertes (2 MJ)
FIGRA₄₀₀: Flammwachstumsrate (W/m) nach Erreichen des THR-Schwellenwertes (4 MJ)
THR₃₀₀₀: Flammwachstumsrate (W/m) nach Erreichen des THR-Schwellenwertes (3 MJ)
SMOORA: Gesamte freigesetzte Wärme während der ersten 300 Sekunden Beladung (MJ)
TSP₃₀₀₀: Gesamte freigesetzte Wärme während der ersten 300 Sekunden Beladung (MJ)
FDP: Total smoke production during the first 600 seconds of flame engagement (mJ)
LSF: Gesamte Flammenergie während der ersten 600 Sekunden Beladung (mJ)
Ramp spread of flame, reaching the far edge of the large sample wing
Ramp spread of flame, reaching the far edge of the large sample wing
Ramp spread of flame, reaching the far edge of the large sample wing

Tabelle 1: Prüfergebnisse der SB-Prüfung / SB test results

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page 4 of 5 of classification report
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4. Klassifizierung und Anwendungsgebiet / Classification and field of application

4.1. Klassifizierung / Classification
Die Klassifizierung ist nach EN 13501-1:2018, Abschnitt 11 (Bauprodukt mit Ausnahme von Bodenbelägen) erfolgt.
This classification has been carried out acc. to EN 13501-1:2018, section 11 (construction products, excluding floorings)

Brandverhalten reaction to fire	Rauchentwicklung smoke production	Brennendes Abtropfen flaming droplets
C	–	s 2
Klassifizierung / Classification: C – s2,d0		

4.2. Anwendungsgebiet / Field of application
Die Klassifizierung in Abschnitt 4.1 ist nur für das auf Seite 1 genannte und im Abschnitt 2 sowie den in Abschnitt 3.1 genannten Prüfberichten näher beschriebene Bauprodukt gültig.
This classification is valid for the following end use conditions:
The self-adhesive film must be applied directly, without air gap and without further supplementary means on metallic materials of class A1 or A2-1,0 (EN 13501-1), which must have a thickness of at least 0,6 mm, a gross density of no less than 580 kg/m³ and a melting point of at least 500 °C.
Joints between individual material faces have to be butt-jointed.

5. Einschränkungen / Limitations
5.1. **Geltungsdauer / Duration of validity**
Die Klassifizierung gilt bis zum auf Seite 1 angegebenen Datum. Sie kann nach einer Überprüfung des Brandverhaltens verlängert werden. Der Klassifizierungsbericht verliert außerdem seine Gültigkeit, wenn sich die Klassifizierungskriterien gemäß DIN EN 13501-1 ändern oder ergänzt werden, oder wenn die Produktzusammensetzung oder der Produktbau geändert werden.
When no continuous verification of the brand behaviour is carried out by the manufacturer, this classification remains valid no later than the date stated on page 1. It can be renewed after re-evaluation of the reaction to fire. This classification also loses its validity.

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page 5 of 5 of classification report
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as soon as the classification criteria according to DIN EN 13501-1 are altered or amended, or as soon as the product formulation or its composition are altered. If the fire behaviour of the product is not continuously monitored by the manufacturer, each change in either of production process, production environment, raw materials, or chain of suppliers causes this classification to become invalid. In this case, the fire behaviour has to be reassessed.

5.2. Hinweise / Remarks
In Verbindung mit anderen Baustoffen, mit anderen Abständen, Befestigungen, Fugenabstößen/Verbindungen, Dicken- oder Randschichtenbereichen, Beschichtungen als in den Abschnitten 2 und 4.2 angegeben, kann das Brandverhalten negativ beeinflusst werden, so dass die Klassifizierung in Abschnitt 4.1 nicht mehr gilt. Das Brandverhalten von anderen als den oben angegebenen Parametern ist gesondert nachzuweisen.
Used in combination with other materials, esp. other substrates/backings, air gaps/voids, types of fixation joints, thickness or density ranges, coatings than those given in sections 2 and 4.2, the fire performance is likely to be influenced negatively, so that the classification assigned in section 4.1 will no longer be valid. The fire performance with parameters other than those given above has to be tested and classified separately.
Dieser Klassifizierungsbericht ersetzt nicht einen gegebenenfalls notwendigen baurechtlichen / bauaufsichtlichen Nachweis nach Landesbauordnung.
This classification report is in no case a substitute for any required certification according to German building regulations.
Der Klassifizierungsbericht darf ohne vorherige Zustimmung des Prüfinstituts Hoch nur innerhalb des Geltungsbereiches (siehe Abschnitt 5.1) und nur vollständig und nach Form und Inhalt unverändert veröffentlicht oder vervielfältigt werden.
Without written consent of the test laboratory, this test report may only be published or reproduced during its derivate period of validity (cf. section 5.1), providing that no changes to appearance or content are made and the report is complete.
Dieses Dokument stellt keine Typzulassung oder Zertifizierung des Produktes dar.
This document does not represent type approval or certification of the product.

Fladungen, 26.06.2023

Sachbearbeiter
Clerk in charge

Leiter der Prüfstelle
Head of test laboratory

(Dipl.-Ing. (FH) Andreas Hoch)

SERTİFİKALAR

BEYOND ASIAN HUB, TOWARD GLOBAL WORLD

TEST REPORT

98, Gyooyukwon-ro, Gwacheon-si, Gyeonggi-do, 13810, Korea TEL 82-2-2164-0011 FAX 82-2-2634-1008

Report No : TBK-2018-011488 Receipt Date : 2018.11.21.
Representative : CHUNG MONG JIN, CHUNG MONG IK Test Completion Date : 2019.01.02.
Company name : KCC Corporation(Asan Plant)
Address : 658-33, Asan-ro, Yeomchi-eup, Asan-si, Chungcheongnam-do, Republic of Korea

Sample name : KCC INTERIOR FILM VICENTI

Test Results				
TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Antifungal test	Rating	After 1 week	0	ASTM G21-15
Antifungal test	Rating	After 2 weeks	0	ASTM G21-15
Antifungal test	Rating	After 3 weeks	0	ASTM G21-15
Antifungal test	Rating	After 4 weeks	0	ASTM G21-15

* Interpretation of the results (Rating)
0 : None
1 : Traces of growth (less than 10 %)
2 : Light growth (10 to 30 %)
3 : Medium growth (30 to 60 %)
4 : Heavy growth (60 % to complete coverage)

** Test fungi
- Aspergillus brasiliensis ATCC 9642
- Penicillium pinophilum ATCC 11797
- Chaetomium globosum ATCC 6205
- Trichoderma viridis ATCC 9645
- Aureobasidium pullulans ATCC 15233

Attachment : Test report
- Usage of Report : QUALITY CONTROL

2019.01.02

Yoon Se-mi
Prepared by Yoon Se-mi
Tel : 02-2092-3948

Jim-Sik Cho
Reviewed by Jim-Sik Cho
Tel : 1577-0091(ARS ①-④)

Korea Testing & Research Institute

President *Byun, Jong-Ryeop*

QR Code for forgery

Page: 1 of 2

KTR KOREA TESTING & RESEARCH INSTITUTE KTR-QP-T08-F01-Q2(07) A4(210 X 297)

BEYOND ASIAN HUB, TOWARD GLOBAL WORLD

TEST REPORT

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Representative : CHUNG MONG JIN, CHUNG MONG IK Test Completion Date : 2019.01.02.
Company name : KCC Corporation(Asan Plant)
Address : 658-33, Asan-ro, Yeomchi-eup, Asan-si, Chungcheongnam-do, Republic of Korea

Sample name : KCC INTERIOR FILM VICENTI

Test Results				
TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Antifungal test	Rating	After 1 week	0	ASTM G21-15
Antifungal test	Rating	After 2 weeks	0	ASTM G21-15
Antifungal test	Rating	After 3 weeks	0	ASTM G21-15
Antifungal test	Rating	After 4 weeks	0	ASTM G21-15

Note : 1. The test results of this test report are only limited in to the samples and sample names provided by the client and do not guarantee the quality of all products of the client. You Can check website (www.ktr.or.kr) or QR code to verify the authenticity of the certificate.
2. This test report shall be used only within the purpose of its defined usage and shall not be used for public relation, advertisement and lawsuit.
3. This test report is only valid when printed on KTR original report paper with hologram and when re-issued by KTR. The copy and the electronic file of the test report are only for reference.

2019.01.02

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