

Dátum : máj 16, 2017

Strana: 1 z 11

Názov vzorky : SOLID SURFACE
Materiál : Akrylový pevný povrch
Miesto pôvodu : Čína

Vyššie uvedené informácie a vzorky boli predložené a potvrdené klientom. Spoločnosť SGS však nenesie žiadnu zodpovednosť za overenie presnosti, primeranosti a úplnosti informácií o vzorkách poskytnutých klientom.

Určené použitie : Vanity a kuchynské dosky

Vyššie uvedené informácie a vzorky boli predložené a potvrdené klientom. Spoločnosť SGS však nenesie žiadnu zodpovednosť za overenie presnosti, primeranosti a úplnosti informácií o vzorkách poskytnutých klientom.

Požadovaná skúška : EN 15388:2008 Aglomerovaný kameň - Dosky a výrobky rezané na mieru na toaletné a kuchynské dosky

Dátum prijatia : 9. máj 2017

Dátum začiatku testovania : 9. máj 2017

Dátum ukončenia testovania : 16. máj 2017

Výsledok(y) testu : Ďalšie podrobnosti nájdete na nasledujúcej strane (stranách)
(Pokiaľ nie je uvedené inak, výsledky uvedené v tejto správe o skúške sa vzťahujú len na testovanú vzorku (vzorky))

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SGS-CSTC Standards Technical
Services Co., Ltd. Pobočka XM



Civi Huang Autorizovaný signatár



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Zhrnutie výsledkov testov:

(Priemerná hodnota)

Nie.	Testovacie položky	Testovacie metódy	Výsledky testov	Strana
1	Test odolnosti proti škvŕnám (brúsené)	EN 14617-10:2012 Príloha A	Pozrite si tieto informácie	3
2	Absorpcia vody	EN 14617-1:2013	0.03 %	4
	Zjavná hustota		1773 kg/m ³	
3	Pevnosť v ohybe	EN 14617-2:2016	56,4 MPa	4
4	Odolnosť voči tepelným šokom	EN 14617-6:2012	Úbytok hmotnosti: 0,11 % Pevnosť v ohybe po tepelnom šoku: 54,8 MPa Strata pevnosti v ohybe: 2,8 %	5
5	Odolnosť proti nárazu	EN 14617-9:2005	10.56 J	6
6	Chemická odolnosť	EN 14617-10:2012	Klasifikácia: C ₄	7
7	Lineárny koeficient tepelnej rozťažnosti	EN 14617-11:2005	53,9 × 10 ⁻⁶ /°C	8
8	Rozmery, geometrické charakteristiky a kvalita povrchu	EN 15388:2008 EN 14617-16:2005	Pozrite si tieto informácie	9
9	Tepelný výkon (tepelná vodivosť)	EN 12664:2001	0,447 W/(m·K)	10

Poznámka: 1. Tepelné vlastnosti (tepelná vodivosť) boli vykonané internými laboratóriami SGS.

2. Výsledky testov položiek 2~9 boli skopírované zo správy č.: XMIN170300440CCM (dátum vydania: 20. apríla 2017).

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1. Odolnosť voči škvrnám

Testovacia metóda:

EN 14617-10:2012 Aglomerovaný kameň - Skúšobné metódy - Časť 10: Stanovenie chemickej odolnosti - Príloha A - Stanovenie odolnosti proti škvrnám

Vzorky: Aglomerovaný kameň, 100 mm × 100 mm × 15 mm, 12 ks, jedna strana brúsená

Skúšobný povrch: brúsený

Výsledok testu:

Farbiace činidlo (čínidlá)	Čas kontaktu	Vizuálny test (ovplyvnený alebo neovplyvnený)
Červené víno	1h	Nie je ovplyvnené
	24h	Nie je ovplyvnené
Rúž	1h	Nie je ovplyvnené
	24h	Nie je ovplyvnené
Ocot	1h	Nie je ovplyvnené
	24h	Nie je ovplyvnené
Farba na vlasy	1h	Nie je ovplyvnené
	24h	Dotknuté stránky

Poznámka: Vyššie uvedené farbiace prostriedky navrhol klient.

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2. Zdanlivá hustota a absorpcia vody

Testovacia metóda:

EN 14617-1:2013 Aglomerovaný kameň - Skúšobné metódy - Časť 1: Stanovenie zdanlivej hustoty a nasiakavosti

Vzorky: Aglomerovaný kameň, 100 mm × 100 mm × 20 mm, 6 ks, pílené plochy

Výsledok testu:

Identifikácia exemplárov č.	1	2	3	4	5	6
Absorpcia vody (%)	0.03	0.02	0.03	0.03	0.03	0.03
Aritmetický priemer absorpcie vody (%)	0.03					
Zjavná hustota (kg/m ³)	1773	1774	1773	1773	1773	1774
Aritmetický priemer zdanlivej hustoty (kg/m ³)	1773					

3. Pevnosť v ohybe

Testovacia metóda:

EN 14617-2:2016 Aglomerovaný kameň - Skúšobné metódy - Časť 2: Stanovenie pevnosti v ohybe (ohyb)

Vzorky: Aglomerovaný kameň, 200 mm × 50 mm × 20 mm, 10 ks, pílené plochy

Rýchlosť zaťaženia: (0,25±0,05)MPa/s

Výsledok testu:

Identifikácia exemplárov č.	1	2	3	4	5	6	7	8	9	10
Pevnosť v ohybe (MPa)	58.3	58.5	55.3	60.3	55.3	53.0	59.4	58.6	56.7	49.0
Priemerná hodnota (MPa)	56.4									
Štandardná odchýlka (MPa)	3.5									
Nižšia očakávaná hodnota (MPa)	49.4									

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4. Odolnosť voči tepelným šokom

Testovacia metóda:

EN 14617-6:2012 Aglomerovaný kameň - Skúšobné metódy - Časť 6: Stanovenie odolnosti proti tepelnému šoku Vzorky: Aglomerovaný kameň, 200 mm × 50 mm × 20 mm, 10 ks, pílené plochy

Výsledok testu:

Po 20 cykloch tepelného šoku:

Na každej vzorke nie je zjavná zmena farby, zjavný výskyt škvŕn, zjavný opuch, zjavné praskanie, zjavné odlupovanie alebo olupovanie.

Zmena hmotnosti:

Identifikácia exemplárov č.	1	2	3	4	5	6	7	8	9	10
Úbytok hmotnosti (%)	0.10	0.10	0.11	0.11	0.11	0.11	0.10	0.10	0.11	0.11
Priemerná strata hmotnosti (%)	0.11									

Pevnosť v ohybe po 20 cykloch odolnosť proti tepelnému šoku: (rýchlosť zaťaženia: $0,25 \pm 0,05$ MPa/s)

Identifikácia exemplárov č.	1	2	3	4	5	6	7	8	9	10
Pevnosť v ohybe (MPa)	56.9	54.9	57.3	52.2	55.6	55.7	56.8	56.3	50.2	51.7
Priemerná hodnota (MPa)	54.8									
Štandardná odchýlka (MPa)	2.5									
Nižšia očakávaná hodnota (MPa)	49.6									

Zmena pevnosti v ohybe: 2,8 %

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5. Odolnosť proti nárazu

Testovacia metóda:

EN 14617-9:2005 Aglomerovaný kameň - Skúšobné metódy - Časť 9: Stanovenie odolnosti proti nárazu

Vzorky: Aglomerovaný kameň, 200 mm × 200 mm × 20 mm, 4 ks, rezané plochy

Testovací povrch: rezaný

Výsledok testu:

Identifikácia exemplárov č.	1	2	3	4
Výška pádu, h (m)	1.05	1.00	1.00	1.05
Zlomová energia, L (J)	10.81	10.30	10.30	10.81
Priemerná hodnota (J)	10.56			

Poznámka:

Zlomová energia L v jouloch sa vyjadruje vzorcom

$$L = M \times h \times g$$

Kde

 M je hmotnosť gule 1,050 kg, h je výška pádu gule v metroch, ktorá spôsobí rozbitie vzorky, g je gravitačné zrýchlenie rovné 9,806 m/s².

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6. Chemická odolnosť

Testovacia metóda:

EN 14617-10:2012 Aglomerovaný kameň - Skúšobné metódy - Časť 10: Stanovenie chemickej odolnosti vzoriek: Aglomerovaný kameň, 300 mm × 300 mm × 20 mm, 4 ks, leštený povrch

Príprava vodných roztokov:

- 1) Roztok kyseliny chlorovodíkovej, 50 % (V/V), pripravený z roztoku kyseliny chlorovodíkovej N
- 2) Roztok hydroxidu sodného, 50 % (V/V), pripravený z normálneho vodného roztoku hydroxidu sodného bez obsahu uhličitanov

Typ použitého lesklomeru a druh a intenzita svetelného zdroja: Lesk 260, CIE D65 Smer odrazu svetla: 60°

Výsledok testu:

Chemická odolnosť	Vzorka NO.	Referenčná hodnota	Klasifikácia
Roztok kyseliny chlorovodíkovej (HCl)	1 (1h)	94.8%	C4 poznámka
	2 (8h)	87.3%	
Roztok hydroxidu sodného (NaOH)	3 (1h)	99.8%	
	4 (8h)	88.7%	

Poznámka:

c1: Aglomerované kamene, ktoré si zachovávajú menej ako 60 % referenčných hodnôt odrazu (pozri EN 14617-10) po 1 h ± 30 min pôsobenia alkálií a kyselín.

c2: Aglomerované kamene, ktoré si po 1 h ± 30 min pôsobenia alkálií a kyselín zachovávajú 60 % až 80 % referenčnej hodnoty odrazu (pozri EN 14617-10).

c3: Aglomerované kamene, ktoré si zachovávajú 60 % až 80 % referenčnej hodnoty odrazu (pozri EN 14617-10) po 8 h ± 30 min pôsobenia alkálií a kyselín.

c4: Aglomerované kamene, ktoré si zachovávajú aspoň 80 % referenčnej hodnoty odrazu (pozri EN 14617-10) po 8 h ± 30 min pôsobenia kyselín a zásad (alebo ak je pôsobenie len v jednej vzorke medzi 60 % a 80 %, pozri EN 14617-10).

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7. Lineárny koeficient tepelnej rozťažnosti

Testovacia metóda:

EN 14617-11:2005 Aglomerovaný kameň - Skúšobné metódy - Časť 11: Stanovenie koeficientu lineárnej tepelnej rozťažnosti

Vzorky: 3ks, pílené plochy Rýchlosť ohrevu: Aglomerovaný kameň, 50 mm × 10

mm × 10 mm, 3 ks: 3 °C/min

Výsledok testu:

Teplota: od 30 °C do 60 °C.

Identifikácia exemplárov č.	1	2	3
Lineárny koeficient tepelnej rozťažnosti (10^{-6} /°C)	53.9	52.5	55.2
Stredná hodnota (10^{-6} /°C)	53.9		

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8. Rozmery, geometrické charakteristiky a kvalita povrchu

Testovacia metóda:

EN 14617-16:2005 Aglomerovaný kameň - Skúšobné metódy - Časť 16: Stanovenie rozmerov, geometrických charakteristík a kvality povrchu modulových obkladov

Vzorky: Aglomerovaný kameň, 300 mm × 300 mm × 20 mm, 10 ks, pílené plochy

Výsledok testu:

Pracovná veľkosť: 300 mm × 300 mm × 20 mm

Testovacie položky		Požiadavky: EN 15388:2008	Výsledky testov
Dĺžka a šírka	Priemerný rozmer 10 skúšobných vzoriek	300 ± 1,2 mm	300,32 mm
	Odchýlka priemernej veľkosti každej dlaždice od pracovnej veľkosti vyjadrená v percentách		0.05%~+0.13% 0,16 mm ~ + 0,40 mm
Hrúbka	Priemerná hrúbka 10 skúšobných vzoriek	20±1,2 mm	19,46 mm
	Odchýlka priemernej hrúbky každej dlaždice od hrúbky pracovného rozmeru vyjadrená v percentách		-3.50%~-2.00% -0,70 mm ~ 0,40 mm
Povrchová úprava	/	/	Pílenie

***** Bude pokračovať *****



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Xiamen Branch Testing Center Commercial Construction Material Laboratory

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9. Tepelná vodivosť a tepelný odpor

Testovacia metóda:

EN 12664:2001 (metóda merania tepelného toku)

Podmienky skúšky:

Vzorka: Hustota: približne 1771 kg/m³

Priemerná teplota: 23 °C Rozdiel teplôt: 10°C

Podmienky prostredia v laboratóriu: 23±2°C, 50±5%RH

Výsledok testu:

Testovacia položka	Výsledok testu
Tepelná vodivosť	0,447 W/(m-K)
Tepelná odolnosť	0,044 (m ² -K)/W

Poznámka: Výsledok testu nemožno porovnávať s inými výsledkami získanými z rôznych skúšobných podmienok a nemal by sa priamo vzťahovať na podmienky používania.

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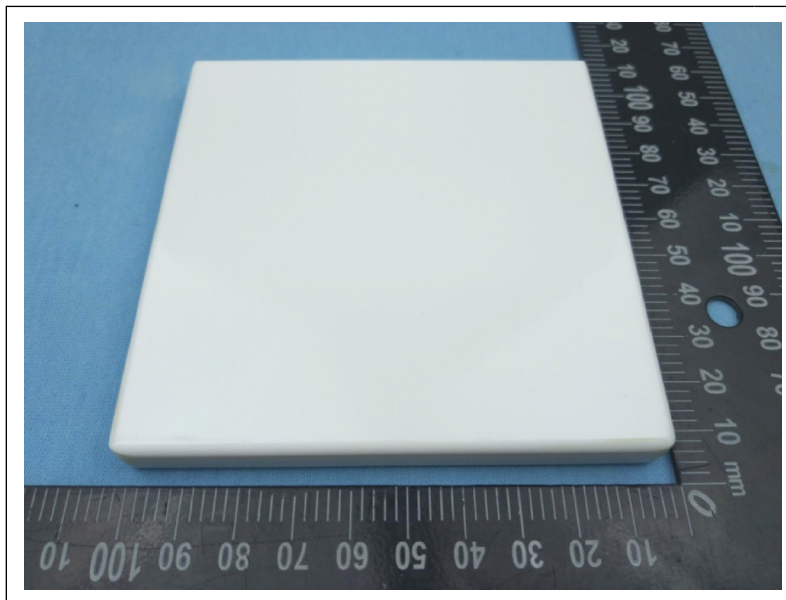
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Dátum : máj 16, 2017

Strana: 11 z 11

Vzorová fotografia:



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*****Koniec správy*****



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