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Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	16.03.2020	
Auftraggeber: <i>Client:</i>	Shanghai Kelesi Industry Development Co., Ltd. NO.5199, GONGHEXIN ROAD, BAOSHAN DISTRICT, SHANGHAI			
Prüfgegenstand: <i>Test item:</i>	K&L 客乐思® Solid Surface Manufacturer: SHANDONG KELESI NEW MATERIAL TECHNOLOGY CO., LTD			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	K&L 客乐思® Solid surface sheeting in all colors with thickness from 5-30mm			
Auftrags-Inhalt: <i>Order content:</i>	General test service			
Prüfgrundlage: <i>Test specification:</i>	EN 13501-1:2018, Class B Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests			
Wareneingangsdatum: <i>Date of receipt:</i>	31.03.2020			
Prüfmuster-Nr.: <i>Test sample No.:</i>	2003008			
Prüfzeitraum: <i>Testing period:</i>	10.04.2020 - 14.04.2020			
Ort der Prüfung: <i>Place of testing:</i>	Guangzhou			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd. Xiamen Branch			
Prüfergebnis*: <i>Test result*:</i>	Refer to the following page			
geprüft von / tested by:		kontrolliert von / reviewed by:		
29.04.2020	Dora Long / PE	29.04.2020	Luke Xu / Reviewer	
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>
Sonstiges / Other:				
The name of manufacturer is added in Test item of coverpage by the request of client.				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet
Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</p> <p><i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

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Produktbeschreibung
Product description

1	Produktdetails <i>Product details</i>	K&L 客乐思® Solid surface sheeting in all colors with thickness from 5-30mm
2	Maße / Gewicht <i>Dimensions / Weight</i>	N/A
3	Bedienelemente <i>Operating elements</i>	N/A
4	Ausstattung / Zubehör <i>Equipment / Accessories</i>	N/A
5	Verwendete Materialien <i>Used materials</i>	N/A
6	Sonstiges <i>Other</i>	N/A
		N/A
N/A		N/A

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Absatz	Selected test(s) as requested by client	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

Test Information

1. Test conducted

This test is conducted as per EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests, Class B for construction products excluding floorings and linear pipe thermal insulation products.

And the test methods as following:

- 1) EN ISO 11925-2:2010 Reaction to fire tests — Ignitability of products subjected to direct impingement of flame Part 2: Single-flame source test
- 2) EN 13823:2010+A1(2014) Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.

2. Sample description

- 1) Color: White
- 2) Size: 1500*495*12mm, 5pcs;
1500*1000*12mm, 5pcs (made of 1500*500*12mm, 10 pcs);
90*250*12mm, 12pcs

Remark: Client declared the series models “K&L 客乐思® Solid surface sheeting in all colors with thickness from 5-30mm” were identical with the tested model.

3. Test result

No.	Test Item	Requirements	Test results	Individual classification	
1	Ignitability of products subjected to direct impingement of flame Part 2: Single-flame source test	F _s (mm) (Exposure = 30 s)	F _s ≤ 150 mm within 60 s	B	
2	Building products excluding floorings exposed to the thermal attack by a single burning item	LFS	LFS < edge of specimen		< edge of specimen
		FIGRA (W/s)	FIGRA _{0,2 MJ} ≤ 120		33
		THR _{600 s} (MJ)	THR _{600 s} ≤ 7.5	4.3	

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(Continued)

2	Building products excluding floorings exposed to the thermal attack by a single burning item	Smoke production	SMOGR _A (m ² /s ²)	s1: SMOGR _A ≤ 30 s2: SMOGR _A ≤ 180 s3: not s1 or s2	0	s1
			TSP _{600 s} (m ²)	s1: TSP _{600 s} ≤ 50 s2: TSP _{600 s} ≤ 200 s3: not s1 or s2	29	
		Flaming droplets/particles	d0: no flaming droplets/particles within 600 s; d1: no flaming droplets/particles persisting longer than 10 s within 600 s; d2: not d0 or d1.	No flaming droplets/particles within 600 s	d0	

Conclusion: The sample tested conformed to the requirement of Class B and additional requirement of Class s1, d0 in EN 13501-1: 2018 Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products.

Remark:

LFS — Lateral flame spread

FIGRA — Fire growth rate index used for classification purposes [W/s]

THR_{600 s} — Total heat release within 600 s [MJ]

SMOGR_A — Smoke growth rate [m²/s²]

TSP_{600 s} — Total smoke production within 600 s [m²]

F_s — Flame spread [mm]

Statement:

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.

END OF TEST REPORT