

TEST REPORT

1. No : CT15-118365

2. Client

○ Name : MELATONE LTD.

○ Address : #692-10, Gojan-dong, Namdong-ku, Incheon, Korea

3. Date of Test : 2015.11.09 ~ 2015.11.24

4. Use of Report :

5. Test Sample : HPL - Clean Touch(Anti-fingerprint)



6. Test Method

(1) KS M 3332:2009

(2) KS M 3803:2009

Reissuance (R1)

Date : Dec 14, 2015

Affirmation	Tested By Name : Sang Hee Seo 	Technical Manager Name : Ha, Keum Suk 
Our report apply only to the standards or procedures identified and to the sample(s) tested unless otherwise specified. The test results are not indicative of representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products.		

2015.11.24

Korea Conformity Laboratories

President Kyung Sik Kim 

Address : 215-91 85,Dambang-ro,Namdong-gu,Incheon,Korea 82-32-460-5100

Result Inquiry : Wood & Furniture Reseach Center 82-32-460-5152

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7. Test Results

1) HPL - Clean Touch(Anti-fingerprint)

Test Item(s)	Unit	Test method	Test Results	Remark
Resistance to hot water	-	(1)	No defect	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Resistance to boiling water - Rate of increase in mass	%	(1)	5	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Resistance to boiling water - Rate of increase in thickness	%	(1)	10	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Resistance to boiling water - Resistance to interlaminar peeling	-	(1)	No defect	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Heat resistance	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - black tea	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - coffee	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - milk	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - 1 % iodine alcohol solution	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - vinegar	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - 10 % citric acid aqueous solution	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - gasoline	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - acetone(industrial)	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - olive oil	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - 10 % an ammonia solution	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - crayon	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - shoe polish	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - dye	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - office ink	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - 2 % merbromin aqueous solution	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - phenol aqueous solution	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - Acid sulfate sodium saturated aqueous solution	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Stain resistance - pine resin	-	(1)	No change	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Wear resistance - Wear value	g/100 Rev.	(1)	0.06	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Wear resistance - Wear amount	number	(1)	775	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Ball impact resistance(The height of the Metal ball : 100 mm)	-	(1)	No crack	(19.5 ± 0.5) °C, (50 ± 1) % R.H.

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Tensile strength	Mpa	(1)	69	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Scratch hardness	g	(1)	120	(19.5 ± 0.5) °C, (50 ± 1) % R.H.
Light resistance - Appearance	-	(2)	No defect	-
Light resistance - Color difference(ΔE^*ab)	-	(2)	0.3	-

► Light resistance condition

1. Fade - 0 - Meter, Carbon Arc Type
2. Test Duration : 48 h
3. (63 ± 3) °C Black Panel Temperature
4. (50 ± 5) % R.H.

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