SGS Korea Co., Ltd.

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Date : January 22, 2003

Testing Report No. 6901/ 044300

INNECTRON
643-5 Gak-ri, Ochang-myun, Cheongwon-gun,
Chungbuk, Korea

The following merchandise was submitted and identified by the client as : -

Type of Product : Two samples of (1) Raw Materials for Functional Jewelry 1
(2) Raw Materials for Functional Jewelry 2

SGS File No. : S-49/2003-2215

Test Performed : SGS Korea tested the sample which was selected by applicant with following result through subcontracted working as previously agreed.

* * * * *

Sample receiving date : Jan. 14, 2003
Test performing date : Jan. 15, 2003

Test results : For further details, please refer to following page.

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SGS Korea Co., Ltd.

T.J.Hwang

hrp

T.J.Hwang / Lab. Manager

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Type of Product : (1) Raw Materials for Functional Jewelry 1 (2) Raw Materials for Functional Jewelry 2
Innectron

Test Conducted

Results

- Test Item : Emissivity of far Infrared
- Temperature & Relative Humidity : 20±2℃ & 65±2%
- Test Method : Emissivity Test by FT-IR
- Test Result : The test results of sample is as follows;

	Emissivity (%)			Emission Power Energy (w/m^2. ㎛, 40℃)		
	5 ~ 20 ㎛	6 ~ 14 ㎛	Max.	5 ~ 20 ㎛	6 ~ 14 ㎛	Max.
Blackbody	-	-	-	402.768	269.486	38.654
Sample (1)	92.2	91.3	92.5	371.352	246.041	35.753
Sample (2)	92.5	91.6	92.9	372.560	246.849	35.918
Comparative sample	83.8	83.1	84.0	338.225	226.607	32.414

※ The Far Infrared emission product should be meet one more of follow need items at 5 ~ 20 ㎛, test temp..

Need items	Sample(1)	Sample(2)
Emissivity of sample is over 5% comparison with comparative sample at 5 ~ 20 ㎛	0	0
Emissivity of sample is over 10% comparison with comparative sample at specificated wavelength	×	×
Emissivity of sample is over 90% at 5 ~ 20 ㎛	0	0
Emissivity of sample is over 85% at 6 ~ 14 ㎛	0	0

0 : meet, × : not-meet

※ TEST CONDITION

1. Measurement Wavelength : 5 ~ 20 ㎛
2. Measurement Temperature : 40℃
3. Sample Size : 30×30 ㎜

※ NOTES

1. This test result is measured by FT-IR in comparison with blackbody at 40℃ by request of applicant and if different test method, test result may be different with this test result.
2. This test result is a reference data about the emissivity of specimen tested and if products made in this specimen, test result may be different with this test result.
3. The error of test result is due to FT-IR, Blackbody, sample furnace and repeat test and total error is emissivity ±1.0, emission power energy ±4.028.

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Type of Product : (1) Raw Materials for Functional Jewelry 1 (2) Raw Materials for Functional Jewelry 2
Innectron

Test Conducted

Results

▣ Test Item : Emissivity of anion

▣ Test Result :

ITEM / SAMPLE	Number of anion particle (ion/㎤)
(1) Raw Materials for Functional Jewelry 1	1226
(2) Raw Materials for Functional Jewelry 2	1669

▣ Test Condition : Temp. 21℃, Humidity 40%, Number of anion particle 63 ion/㎤

▣ Remark : Number of anion particle at atmosphere (Unit : ion/㎤)

Atmosphere	Number of anion particle	Comparison with indoor
Indoor	10 ~ 70	1
Ourdoor	80 ~ 150	1.1 ~ 5
Suburbs	200 ~ 300	2.8 ~ 10
Fields	700 ~ 800	10.0 ~ 26.7
Forest	1,000 ~ 2,200	14.3 ~ 73.3

********** End **********

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