

ISO/IEC 17025 Certified Third Party Test Report

DATE ISSUED: January 27, 2020
DATE REVISED: January 29, 2020

FILE: MYCOWO.A011720B

CLIENT: MycoWorks
San Francisco, CA

SAMPLE IDENTIFIED BY CLIENT AS:

Fabrics Submitted
Name: Reishi Black Emboss
Color Black

TEST PROCEDURES:

TEST RESULTS:

FABRIC WEIGHT

(ASTM D3776):

- SPECIMEN 1:	16.45 oz/sq yd
- SPECIMEN 2:	17.16 oz/sq yd
- SPECIMEN 3:	16.54 oz/sq yd
- SPECIMEN 4:	17.60 oz/sq yd
	<u>16.94 oz/sq yd average</u>

THICKNESS OF LEATHER

SPECIMENS (ASTM D1813):

- SPECIMEN 1:	0.725 mm
- SPECIMEN 2:	0.782 mm
- SPECIMEN 3:	0.652 mm
- SPECIMEN 4:	0.681 mm
	<u>0.710 mm average</u>

APPARENT DENSITY OF LEATHER

(ASTM D2346):

- SPECIMEN 1:	0.769 grams/cm ³
- SPECIMEN 2:	0.744 grams/cm ³
- SPECIMEN 3:	0.860 grams/cm ³
- SPECIMEN 4:	0.877 grams/cm ³
	<u>0.813 grams/cm³ average</u>

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**TONGUE TEAR STRENGTH OF
LEATHER (ASTM D4704):**

- TEAR IN MACHINE DIRECTION:

Specimen	Thickness (mm)	Coating Tear (kgf)	Force per Thickness (kgf/cm)	Substrate Tear (kgf)	Force per Thickness (kgf/cm)	Maximum Load (kgf)	Max Load / Thickness (kgf/cm)
1	0.662	N/A	N/A	1.209	18.26	1.647	24.88
2	0.632	N/A	N/A	1.261	19.94	1.261	19.94
3	0.664	0.017	0.25	1.095	16.49	1.165	17.54
4	0.842	0.129	1.53	1.137	13.50	1.188	14.11
5	0.748	N/A	N/A	1.143	15.28	1.430	19.11
6	0.776	0.291	3.74	0.722	9.30	1.094	14.66
Average	0.721	0.145	1.84	1.094	15.46	1.297	18.38

- TEAR IN CROSS-MACHINE DIRECTION, MATTE FABRIC:

Specimen	Thickness (mm)	Coating Tear (kgf)	Force per Thickness (kgf/cm)	Substrate Tear (kgf)	Force per Thickness (kgf/cm)	Maximum Load (kgf)	Max Load / Thickness (kgf/cm)
1	0.730	0.215	2.95	1.226	16.79	1.551	21.25
2	0.650	0.453	6.97	0.736	11.33	0.956	14.70
3	0.718	0.080	1.11	1.250	17.41	1.277	17.78
4	0.774	N/A	N/A	1.048	13.54	1.072	13.85
5	0.756	0.104	1.38	0.617	8.16	0.827	10.94
6	0.766	0.315	4.11	0.626	8.18	0.967	12.63
Average	0.732	0.233	3.30	0.917	12.57	1.108	15.19

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TENSILE STRENGTH & ELONGATION OF LEATHER
(ASTM D2209 & ASTM D2211):

- MACHINE DIRECTION:

Specimen	Maximum Load (kgf)	Extension @ Max Load (mm)	Strain (Elong) @ Max Load (%)	Stress @ Max Load (MPa)	Thickness (mm)	Width (mm)	Area (mm ²)
1	11.85	58.85	57.93	13.15	0.736	12.0	8.83
2	8.17	54.62	53.76	9.69	0.678	12.2	8.27
3	8.50	55.31	54.44	8.26	0.848	11.9	10.09
4	4.74	42.77	42.09	5.59	0.692	12.0	8.3
Average	8.31	52.89	52.05	9.17	0.739	12.0	8.9

- CROSS-MACHINE DIRECTION:

Specimen	Maximum Load (kgf)	Extension @ Max Load (mm)	Strain (Elong) @ Max Load (%)	Stress @ Max Load (MPa)	Thickness (mm)	Width (mm)	Area (mm ²)
1	10.33	52.08	51.26	12.91	0.654	12.0	7.85
2	7.86	55.89	55.01	10.42	0.616	12.0	7.39
3	5.86	54.93	54.07	5.99	0.806	11.9	9.59
4	10.45	43.61	42.92	11.42	0.754	11.9	8.97
Average	8.63	51.63	50.81	10.19	0.708	12.0	8.5

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**COLORFASTNESS TO CROCKING
(AATCC 8, Flat) GRAY SCALE:**

Dry: Class 4.0
Wet: Class 1.0

**COLORFASTNESS TO LIGHT
(ASTM G154), QUV 340:
- AFTER 40 HOURS:**

Class 4.5
(Sample became glossy.)

**COLORFASTNESS TO WATER
(AATCC 107):**

Shade Change: Class 4.5
Staining: Acetate Class 4.5
Cotton Class 4.5
Nylon Class 4.0
Polyester Class 5.0
Acrylic Class 5.0
Wool Class 4.5
(Sample became stiffer.)

**COLORFASTNESS TO SEA WATER
(AATCC 106):**

Shade Change: Class 4.5
Staining: Acetate Class 4.0
Cotton Class 4.0
Nylon Class 4.0
Polyester Class 4.5
Acrylic Class 4.5
Wool Class 4.5
(Sample became stiffer.)

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**COLORFASTNESS TO PERSPIRATION
(AATCC 15):**

- **ACID:** Shade Change: Class 4.5
Staining: Acetate Class 4.5
Cotton Class 4.5
Nylon Class 4.5
Polyester Class 5.0
Acrylic Class 4.5
Wool Class 4.5
(Sample became stiffer.)

**COLORFASTNESS TO
WATER SPOTTING (AATCC 104),
EVALUATION PROCEDURE 1:**

- **AFTER 2 MINUTES:** Class 3.0
- **AFTER DRYING:** Class 5.0

**COLORFASTNESS TO SOLVENT
SPOTTING (AATCC 157):**

Solvent Type	Staining Rate Degree of Blotter Paper Used
Acetone	4.0
Ethanol	3.5
Ethyl Acetate	5.0
Isopropanol	5.0

**KEY TO DEGREE OF ALTERATION
IN SHADE AND STRENGTH:**

Class 5, Negligible or no change
Class 4, Slightly changed
Class 3, Noticeably changed
Class 2, Considerably changed
Class 1, Much changed

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APPEARANCE AFTER HYDROLYSIS
PER ASTM D3690 Sec 6.11.3,
24 HOURS EXPOSURE @ 70±1°C,
95±5% RH:

No noticeable discoloration. Sample became slightly to noticeably glossy. No cracking, delamination or other changes.

Signed For The Company By



Joseph Lin
Laboratory Manager

JG/01...JG/01...JG/01



Stacy Sadowy
Quality Assurance Manager