



For the Account of: Gabriel A/S  
 Hjulmagervej 55  
 9000 Aalborg Denmark

Client's Identification: Future Loop col. 63142

## CERTIFICATE OF TESTING

**TEST PERFORMED:** Resistance to Slippage of Yarns in Woven Fabrics Using a Standard Seam ASTM D4034-92

### TEST RESULTS

| Specimen         | Warp Yarn Slippage (lbf) | Type of Failure | Specimen         | Fill Yarn Slippage (lbf) | Type of Failure |
|------------------|--------------------------|-----------------|------------------|--------------------------|-----------------|
| 1                | 114.0                    | SB              | 1                | 135.0                    | SB              |
| 2                | 121.0                    | SB              | 2                | 123.0                    | SB              |
| 3                | 115.0                    | SB              | 3                | 124.0                    | SB              |
| 4                | 110.0                    | SB              | 4                | 130.0                    | SB              |
| 5                | 109.0                    | SB              | 5                | 117.0                    | SB              |
| <b>Avg. Warp</b> | 114.0                    |                 | <b>Avg. Fill</b> | 126.0                    |                 |

### ABBREVIATIONS USED

- SB** Seam broke before 1/4" slippage - Results should reflect this
- SS** 1/4" slippage occurred - Note: Actual slippage of yarns is visible
- FB** Fabric broke before 1/4" slippage - Note: Actual breakage is visible

### NOTES

**Equipment Used:** Tinius Olson H5KT Universal Testing Machine  
**Seam Description:**

|                          |  |
|--------------------------|--|
| <b>Seam Type</b>         | Standard Lockstitch  |
| <b>Stitches per Inch</b> | 7 ± 0.5 stitches per inch  |
| <b>Needle Used</b>       | Size 22 NM: 140, 135x17 ball point needle  |
| <b>Thread</b>            | Nymo EX Bonded Nylon thread; 5x is used for the bobbin and 8x is used for the needle |

### ACCEPTANCE CRITERIA

|                        |                            |
|------------------------|----------------------------|
| <b>A.C.T. Standard</b> | <b>Acceptance Criteria</b> |
| Upholstery             | 25 lbs. Minimum            |

**CERTIFICATION** I certify that the above results were obtained after testing specimen in accordance with the procedures and equipment specified by the standard stated above.

Authorized Signature

Date Order Completed: 10/16/2023