**Tuchfabrik Willy Schmitz GmbH & Co. KG**

# Annual Quality certificate



**sender:**

| | |
|---|---|
| Country: | **Deutschland** |
| factory name: | **Tuchfabrik** |
| name,supplier: | **Willy Schmitz GmbH & CO. KG** |
| street, PO Box: | **Sachsenstr. 30** |
| City: | **D - 41063 Mönchengladbach** |

**recipient:**

| | | |
|---|---|---|
| Name, Kunde | **Adient Seating Dooel Stip** | |
| | **Sanja Kitanova Dimishkova** | sanja.kitanova.dimishkova@adient.com |
| street, PO Box: | **TIDZ 14** | |
| City: | **2000 Stip, Republic of Macedonia** | |

## Specifications

| | | | |
|---|---|---|---|
| **part number:** | 3576258-170020_D | **drawing number:** | DBL 5327.01 - 03-2015 |
| **name:** | Uni Franz schwarz | **IMDS:** | 652055760 |

| | demands | | | | actual value supplier | | evaluation i.O. | n.i.O. |
|---|---|---|---|---|---|---|---|---|
| | Total weight | | 530 ± 30 | g/m² | 505 | g/m² | x | |
| | Weight unlaminated | | 330 ± 20 | g/m² | 337 | g/m² | x | |
| | Weigth non-woven | | 230 ± 23 | g/m² | 240 | g/m² | x | |
| | Total thickness | | 2,8 ± 0,5 | mm | 2,6 | mm | x | |
| | Thickness unlaminated | | 0,8 ± 0,2 | mm | 0,9 | mm | x | |
| | Fibre count | warp | 362 ± 5 | Fd/dm | 364 | Fd/dm | x | |
| | | weft | 202 ± 5 | Fd/dm | 200 | Fd/dm | x | |
| | Yarn counts | | | | | | | |
| | | warp | 550 | dtex | 550 | dtex | x | |
| | | weft | 220 | dtex | 220 | dtex | x | |
| | Breaking force | | | | | | | |
| | | warp | ≥ 1000 | N | 2643 | N | x | |
| | | weft | ≥ 1000 | N | 1487 | N | x | |
| | Breaking force elongation | | | | | | | |
| | | warp 25 N | 1,1 +1,0/-0,5 | % | 1,6 | % | x | |
| | | warp 50 N | 2,0 +1,0/-0,5 | % | 1,7 | % | x | |
| | | warp 100 N | 2,5 +1,0/-0,5 | % | 3,3 | % | x | |
| | | weft 25 N | 2,1 +1,0/-0,5 | % | 2,7 | % | x | |
| | | weft 50 N | 2,5 +0,7/-0,5 | % | 3,1 | % | x | |
| | | weft 100 N | 5,7 +0,5/-1,5 | % | 5,9 | % | x | |
| | Stitch tear resistance | | | | | | | |
| | | warp | ≥ 120 | N | 133 | N | x | |
| | | weft | ≥ 140 | N | 191 | N | x | |
| | Wear resistance abrasion | | 50.000 | LW | 50.000 | LW | x | |
| | White abrasion, note GM | | ≥ 3 | grade | 3-4 | grade | x | |
| | Velcro after 50 LW, note | | ≥ 3-4 | grade | 3-4 | grade | x | |
| | Fastness to rubbing, note GM | | | | | | | |
| | | dry | ≥ 4 | grade | 4-5 | grade | x | |
| | | wet | ≥ 4 | grade | 4-5 | grade | x | |

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| | demands | | | | | actual value supplier | | | evaluation i.O. | n.i.O. |
|---|---|---|---|---|---|---|---|---|---|---|
| | Perspiration fastness, GM | | ≥ | 4-5 | grade | 4-5 | grade | | x | |
| | Hot light fastness, GM | | ≥ | 7 | grade | 7-8 | grade | | x | |
| | Hot light aging, GM | | ≥ | 3 | grade | 4-5 | grade | | x | |
| | Pilling 4000 LW | | ≥ | 4 | grade | 4-5 | grade | | x | |
| | Burning test, mm/min | **D** | | | | | | | | |
| | | warp | ≤ | 100 | mm/min | SE/BR63, SE/NBR, SE/0, SE/NBR, SE/NBR | | mm/min | x | |
| | | weft | ≤ | 100 | mm/min | SE/0, SE/BR52, SE/NBR, SE/BR48, SE/0 | | mm/min | x | |
| | Cleaning ability, GM | | ≥ | 4 | grade | 4-5 | grade | | x | |
| | Adhesion strength | | | | | | | | | |
| | fabric - foam | warp | | 12 +12/-4 or * | N | 12,2 | N | | x | |
| | | weft | | 12 +12/-4 or * | N | 14,9 | N | | x | |
| | foam - non woven | warp | | 12 +12/-4 or * | N | * | N | | x | |
| | | weft | | 12 +12/-4 or * | N | * | N | | x | |
| | Odor | | ≤ | 3 | grade | 2 | grade | | x | |
| | *not separable | | | | | | | | | |

Confirmation Supplier:

This is to certify that the requalification in accordance with MBST was performed according to the specification in respect of conformity.

**name:** Karim Eggink
**department:** QS Mönchengladbach - Oberndorf
**phone/fax:** 02161 - 2458-17 / 02161 - 2076-33
**E-Mail:** karim.eggink@tescagroup.com

Tuchfabrik Willy Schmitz GmbH & Co. KG
Sachsenring 94-30
41065 Mönchengladbach
Postfach 100346
41003 Mönchengladbach

15.08.2022

date signature

**comment:**