

# 4 CFM FR Polyester

Durable and versatile fabric duct material

FR Polyester is a multiple functional material that is highly suited for many different applications, from cleanroom facilities of ISO class 4, industrial facilities and sports halls to equalizing rooms in meat factories.

## AVAILABLE COLORS - PANTONE



WHITE  
11-0601- TP



LIGHT GRAY  
12-4705-TP



DARK BLUE  
19-3864-TP

- Flame retardant fabric
- Class 4 (clean room certified)
- OekoTex approved (Standard 100)
- UL 2518 and EN 13501 (B-S1-d0) fire approved

- FR Polyester is made of multi-filament yarns with a plain surface structure. The filtration of the supply air is equivalent to that of a G2 prefilter acc. to EN779:2012
- The material is cleanroom certified as class 4 acc. to ISO 14644-1 - no shedding of particles
- Fire tested acc. to UL 2518, EN13501 B-S1-d0 without any finishing treatment
- Highly durable material. Tear strength of 110- 210 N acc. to EN ISO 13937:2
- Optional environmentally friendly antibacterial (Antibac-E) treatment for very humid environments (> 85% RH).
- Max. shrinkage of finished fabrics is 0.5%

## Material Datasheet

|                                        |                               |                                              |                  |
|----------------------------------------|-------------------------------|----------------------------------------------|------------------|
| Designation                            |                               | 4 CFM FR Polyester                           |                  |
| Material                               |                               | High Tenacity Polyester fabric               |                  |
| Construction                           |                               | Heat-set, shrinkage- and porosity-stabilized |                  |
| Weight                                 | oz/yd²                        | 8.0                                          | (%) -/+5         |
| Thickness                              | mil                           | 16                                           | (%) -/+10        |
| Tensile strength                       | Warp/Weft lb <sub>f</sub> /in | 194 / 320                                    | (%) -/+10        |
| Resistance to tearing                  | Warp/Weft lb <sub>t</sub>     | 25 / 34                                      | (%) -/+10        |
| Porosity                               | CFM/ft²                       | 4 at 0.5 inWG                                | (%) -20/+25      |
| Filter class                           |                               | G2 (*)                                       |                  |
| Shrinkage in wash                      | %                             | <0.5 (**)                                    |                  |
| Fire resistance                        |                               | Flame retardant                              | UL 723 NFPA 90 A |
| Melting point                          | °F                            | 489                                          |                  |
| Spontaneous ignition temperature       | °F                            | 946                                          |                  |
| Water absorption (in standard climate) | %                             | 0.4                                          |                  |
| Electrostatic resistance               | Ohm                           | ≤2 x 10 <sup>10</sup>                        |                  |
| Operating temperature max./min. (peak) | °F                            | +140 / -49 (peak: 176)                       |                  |
| Resistance to aging                    |                               | Excellent                                    |                  |
| Resistance to vibrations, motion       |                               | Excellent                                    |                  |
| Resistance to solvents                 |                               | Excellent                                    |                  |
| Resistance to acids                    |                               | Good                                         |                  |
| Resistance to bases                    |                               | Medium                                       |                  |
| Resistance to oxidants, light, etc.    |                               | Excellent                                    |                  |
| Oeko-Tex®                              |                               | Approved                                     | Standard 100     |

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## CUSTOM FABRIC AIR DIFFUSERS

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