

1 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



- 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		1 CFM FR Polyester	
Material		High Tenacity Polyester fabric	
Construction		Heat-set, shrinkage- and porosity-stabilized	
Weight	oz/yd ²	8.3	(%) -/+5
Thickness	mil	20	(%) -/+10
Tensile strength	Warp/Weft lb _f /in	354 / 206	(%)-/+10
Resistance to tearing	Warp/Weft lb _f	34 / 29	(%) -/+10
Porosity	CFM/ft ²	1 at 0.5 inWG	(%) -25/+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 ¹⁰	
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

*Recommended measurement **Washed and dried according to instructions

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CUSTOM FABRIC AIR DIFFUSERS

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