

Material data sheet

Brand & Model:
DUCTEASI IFR264 fabric



Description:

DUCTEASI IFR264 fabric was developed for the use in air-conditioning system. The permeable properties of helps prevent condensation without the need of insulation material on our DUCTEASI fabric duct. The IFR264 is tested to meet fire safety code set by Singapore's Civil Defense Force (SCDF). Made from 100% inherently flame-retardant polyester, IFR264 fabric retains the flame retardant's properties even after 50 washes. Our in-house weaving mill used special techniques to produce a stable structure allowing high tensile strength and tearing resistance.

Material properties:

S/N	Characteristic		Value	Unit	Remarks
1	Weight*		264	g/m ²	
2	Thickness*		0.30	mm	
3	Tensile strength (warp/weft)*		1,322/1842	N/50mm	
4	Elongation (warp/weft)*		24.4/35.9	%	
5	Resistance to tearing (warp/weft)*		255/236	N	
6	Minimum permeability		5	m ³ /m ² /hr	
7	Retention grade		F7		Level of filtration
8	Shrinkage in wash (fabric)*		0.02	%	
9	Water Absorption (fabric)*		25.78	%	
10	Operating temperature (Max/Min)		+100/-50	°C	

*Test conducted by Nanyang Technological University, School of Materials Science and Engineering

Fire Testing results:

S/N	Fire Risk	Applicable fire test standards	Test result	Tested by
1	Toxicity	EN45545-2 / ISO 5659-2	CIT < 0.75	SETSCO
2	Smoke Density	BS EN 13501-1:2007+A1:2009	s1 rating	TUV-SUD-PSB
3	Ease of fire / Fire spread	BS EN 13501-1:2007+A1:2009	Class B	TUV-SUD-PSB



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