

dBcloth Melamine – Safe and Sound FR

dBcloth Melamine FR is a specialized formulation of the dBcloth® Safe and Sound product family that is compliant with the most stringent ASTM E84 flame rating regulations often specified in air handling, air plenum, and various transportation applications. Commonly referred to as the “25/50” rating, it is more aggressive than the E84 “Class A” or “Class 1” rating. In addition, at a density of 7 kilograms per cubic meter, the FR formulation is 22% lighter than the standard dBcloth Safe and Sound product family.

Technical Data

	Standard	Units	Value
Color			Grey
Density	EN ISO 845	kg/m ³	7 +3/-3
Compressive Strength	EN ISO 3386-1	kPa	>4
Tensile Strength	ISO 1798	kPa	>90
Elongation at Break	ISO 1798	%	>21
Thermal Conductivity	DIN EN 12667	mW/mK	0.032-0.038
Max Application Temperature	DIN EN ISO 2578	1,000h °C [°F]	220[428]
	DIN EN ISO 2578	5,000h °C [°F]	200[392]
	DIN EN ISO 2578	20,000h °C [°F]	180[356]
Flammability	UL94	Flame Spread Rating	V-0, HF-1
	ASTM E 84	Flame/Smoke Index	0/5
	ASTM E 662	Ds 4	59 flaming, 23 non flaming
	ASTM E 162	Flame spread index	3.4
	ASTM E 1354	HRR 180 s (kW/m ²)	10.9

Sound Absorption

