

ELKALAY TDS

Elkalay offers an economic solution for insulating laminate floors. Elkalay is produced from closed cell Polyethylene Foam which is CFC and HCFC free and 100% recyclable. Minor floor imperfections may be accommodated by using these materials has very effective acoustic qualities.

TESTS	NORMS	VALUE	
Nominal Thickness	BS4051	3mm	
Tolerances	Thickness	+ or – 2%	
	Width and length	+ or – 3%	
Nominal Weight		90 g/m ²	
Apparent Density	DIN 53420 – kg/m ³		22 - 25
Tensile Strength	DIN 53571 – N/mm ²	Along	0.41
		Across	0.29
Elongation	DIN 53571 - %	Along	140
		Across	90
Compressive Stress	DIN 53577 – N/mm ²	10%	0.03
		20%	0.04
		30%	0.05
		50%	0.15
		70%	0.38
Compression Set	DIN 53572 - % - N/mm ²	24hrs	34
	22h / 20 C / 50%	3 days	9
		7 days	8.1
		14 days	6
Lamda Value	DIN 52612 – W/mk 10%		0.046
Water Absorption	DIN 53428 – Vol %	1hr	1
		24hrs	1.4
		28 days	<4
Self Extinguished	UL 94 HF	Class 1	
Weight impacted			
Sound Reduction	BSEN ISO 1408	17dB	
Thermal conduction resistance	EN 16354	0.075m ² K/W	

Floor Heating

An ideal installation has a combined total R-value (floor and underlay) that doesn't exceed 0,15 m²K/W. Below table gives an overview of the maximum moisture content of your sub floor.

	With floor heating	Without floor heating
Cement screed	1,5 % CM (60% RH)	2,5 % CM (75% RH)
Anhydrite screed**	0,3 % CM (40% RH)	0,5 % CM (50% RH)

**** For certain anhydrite screeds, the “milk-skin” must be removed mechanically (sanding & vacuum cleaning)**