

Technical Data Sheet

Greentherm[®] 80

CFC/HCFC Free Rigid Polyisocyanurate Insulation

Material Property	Test Method	Unit	Typical Value
Nominal Dry Density	EN ISO 845	kg/m ³	80
Thermal Conductivity	EN 12667 at +10°C		
	Initial	W/m·K	0.030
	Aged (25 weeks @ 70°C)	W/m·K	0.034
Colour			Grey
Operating Temperature Limits	Upper Limit	°C	+120
	Lower Limit	°C	-50
Compressive Strength	EN 826 at +23°C		
	Parallel	kPa	> 470
	Perpendicular	kPa	> 340
Tensile Strength	ASTM D 1623 – Spec. A at +23°C		
	Parallel	kPa	> 520
	Perpendicular	kPa	> 350
Linear Dimensional Stability	EN 1604		
	+93°C for 24 hours	%	≤ 1
	-30°C for 24 hours	%	≤ 1
Friability	ASTM C 421 (10 min.)	%	≤ 30
Linear Expansion Coefficient	ASTM D 696	K ⁻¹	40-70 x 10 ⁻⁶

Fire Properties	Test Method	Typical Result
Fire Propagation	BS 476-6	Index of performance (I) not exceeding 12 and sub-index (i ₂) not exceeding 6*
Surface Spread of Flame	BS 476-7	Class 1*
Horizontal Burning	EN ISO 3582	≤ 10 mm
Oxygen Index	EN ISO 4589-2	≥ 50 %
Temperature Index	EN ISO 4589-3	> 390°C
Epiradiateur	NF P92-501	M1
Vertical Burning	DIN 4102-1	B2

* These test results combined enable a **Class 0** classification to the Building Regulations.

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