GREENPRODUCTS INDUSTRIES

HIGH PERFORMANCE INSULATION

Technical Data Sheet

Greentherm® 35

CFC/HCFC Free Rigid Polyisocynarute Insulation

Material Property	Test Method	Unit	Typical Value
Nominal Dry Density	EN ISO 845	kg/m3	35
Thermal Conductivity	EN 12667 at +10°C		
	Initial	W/m·K	0.021
	Aged (25 weeks @ 70°C)	W/m·K	0.025
Colour			Grey
Closed Cell Content	EN ISO 4590 Meth. 1	%	≥ 95
Operating Temperature Limits	Upper Limit	°C	+120
	Lower Limit	°C	-50
Compressive Strength	EN 826 at +23°C		
	Parallel	kPa	≥ 150
	Perpendicular	kPa	≥ 90
Tensile Strength	ASTM D 1623 – Spec. A at +23°C		
	Parallel	kPa	≥ 150
	Perpendicular	kPa	≥ 110
Linear Dimensional Stability	EN 1604		
	+93°C for 24 hours	%	≤ 1
	-30°C for 24 hours	%	≤ 1
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_1) 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
Surface Burning Characteristics	ASTM E 84	Flame Spread Index: ≤ 25 Smoke Developed Index: ≤ 50
Epiradiateur	NF P92-501	M1
Vertical Burning	DIN 4102-1	B2

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