

TECHNICAL DATA SHEET

POLYWOOL 24KG

Product description and typical applications

Polywool 24kg is a lightweight thermally bonded polyester blanket having good thermal control and acoustic absorption properties. It is available in various thicknesses and widths.

Polywool 24kg is completely safe, non toxic, non-irritant, non allergenic and is easy to work with and is environmentally friendly.

Polywool 24kg polyester blanket is used for internal lining of air-conditioning ductwork with a suitable factory bonded airway facing film where both acoustic and thermal control are required. When thermal properties only are needed it is used as an external lagging with a factory bonded vapour barrier foil.

Physical Characteristics

Polywool 24kg is a grey polyester blanket of nominal 24kg/m³ density available in the following standard sizes. Other configurations are available on request subject to minimum order quantities.

Thickness (mm)	Width (mm)	Roll Length (m)	R-value (m ² K/w)
25	1200	20	0.63
50	1200	15	1.3

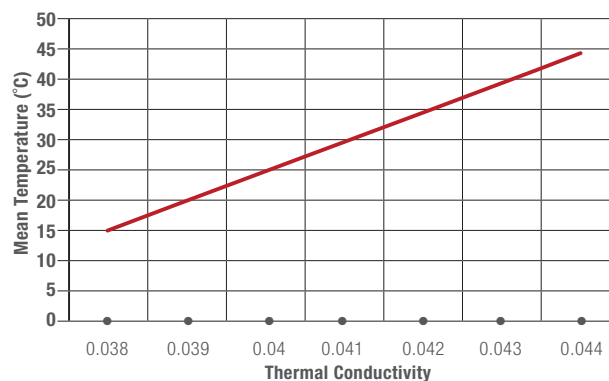
Available Facings

When used as air-conditioning ductwork internal lining a suitable facing is bonded to the blanket to give a smooth cleanable finish. Several types are used to suit differing applications, the main ones being black polyester tissue, perforated foil and AFT™. Each of these offer minimum acoustic resistance allowing maximum effect of the acoustic performance.

When used as an external lagging for thermal control of ductwork, plant and equipment the blankets are available faced with a 1350mm wide, medium duty foil.

Thermal Conductivity

Polywool 24kg has a thermal conductivity of 0.04W/mK at 23°C when tested in accordance with ASTM C117



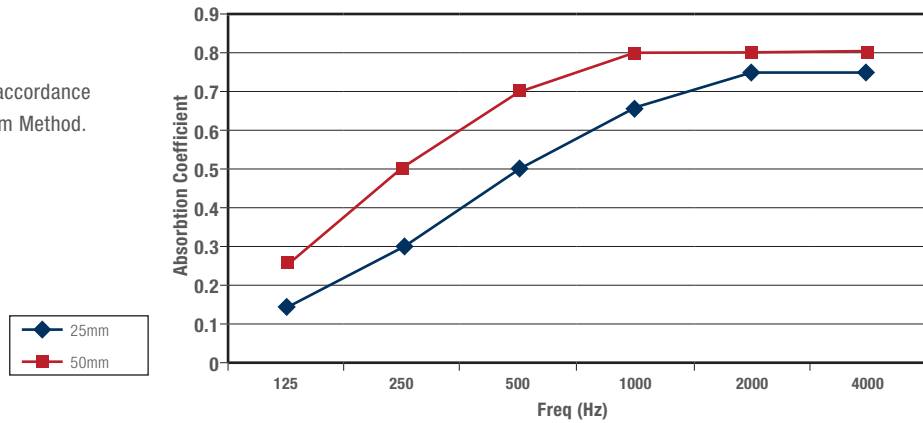
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Acoustic Performance

Polywool 24kg has the following sound absorption coefficients when tested in accordance with AS 1045 by the Reverberation Room Method. Figure Extrapolated from test reports.



Freq (Hz)	125	250	500	1000	2000	4000	NRC
25mm	0.15	0.3	0.5	0.65	0.75	0.75	0.55
50mm	0.25	0.5	0.7	0.8	0.8	0.8	0.7

Early Fire Hazard Test Results

Polywool 24kg is a Self Extinguishing product. Conforms to requirements of Aust/NZ Building Code requirements as tested in accordance with AS1530 part 3, results as follows:

Ignitability	(0-20)	0
Spread of Flame	(0-20)	0
Heat Evolved Index	(0-10)	0
Smoke Developed Index	(0-10)	0-2

Installation

Polyester insulation can be cut with a sharp industrial knife such as a Power Black or Swibo knife, or use of electric power reciprocating and circular action knives, as used in the garment trade, will increase efficiency and accuracy. Blankets can be mechanically fastened with cd weld pins, just place the insulation over the pins and tap with a rubber mallet to pierce before using speed clips. When used with a foil facing, joins can be sealed with a reinforced foil tape.

Miscellaneous Properties

Rec. Max service Temp:	160 degrees Celsius Plain, With adhesives, facings 70 degrees Celsius
Ingredients:	Organic, Long Chain Synthetic Polymer
Chemical Entity:	Composed of Carbon-Hydrogen-Oxygen
Alkalinity:	pH 7.8
Moisture Absorption:	Exposed to an atmosphere of 50 degrees Celcius, 90%RH for four days - Less than 0.03% by volume
Corrosiveness	Not classified as corrosive when tested in accordance with NZS4222

MSDS

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