

TECHNICAL DATA SHEET

POLYWOOL 20KG

Product description and typical applications

Polywool 20kg is a lightweight thermally bonded polyester blanket having good thermal control and acoustic absorption properties. It is available made to order in various thicknesses and widths.

Polywool 20kg is completely safe, non toxic, non-irritant, non allergenic and is easy to work with and is environmentally friendly.

Polywool 20kg is generally used as an external lagging on ductwork with a factory bonded vapour barrier foil. Polywool 20kg blanket can also be used for internal lining of air-conditioning ductwork with a suitable factory bonded airway facing film.

Physical Characteristics

Polywool 20kg is a grey polyester blanket of nominal 20kg/m³ density stocked in the following standard size. 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	1380	15	0.63

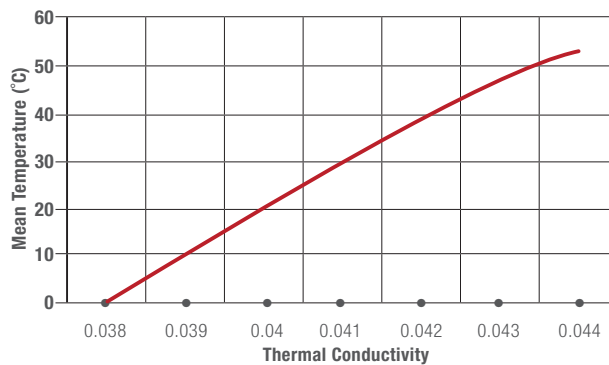
Available Facings

When used as an external lagging for thermal control of ductwork, the blankets are available faced with a 1500mm wide medium duty foil.

When used as an 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 building foil and AFT™. Each of these offer minimum acoustic resistance allowing maximum effect of the acoustic performance.

Thermal Conductivity

Polywool 20kg has a thermal conductivity of 0.04W/mK at 23°C when tested in accordance with ASTM C117



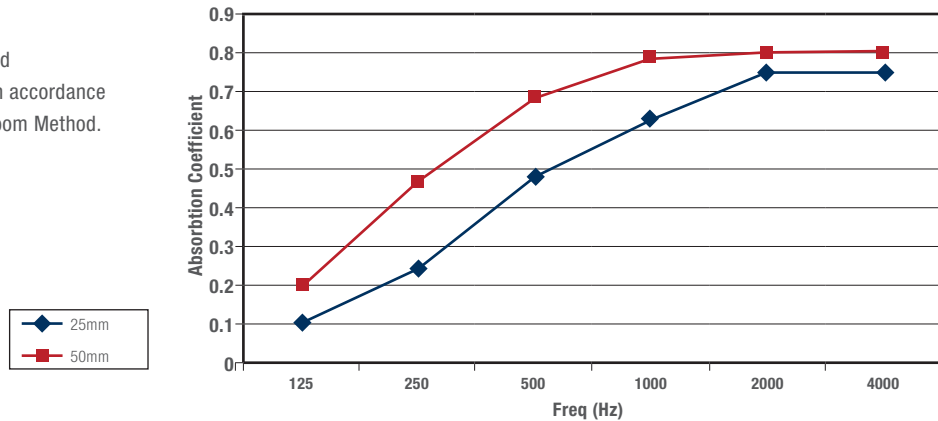
19 Pascal Road, Seaford, Victoria 3198

03 9776 4006

Page 1 of 2

Acoustic Performance

Polywool 20kg 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	0.1	0.25	0.5	0.65	0.75	0.75	0.5
50mm	0.2	0.5	0.7	0.8	0.8	0.8	0.7

Early Fire Hazard Test Results

Polywool 20kg is a Self Extinguishing product. Conforms to requirements of Aus/NZ Building Code requirements when 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

Contact Baron Insulation directly or visit www.baroninsulation.com.au

© Baron Insulation Pty Limited 2016. Baron Insulation reserves the right to change product specifications without prior notification. Information in this publication and otherwise supplied to users as to the subject product is based on our general experience and is given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of products, no warranty is given or is to be implied with respect to either such information or the product itself, in particular the suitability of the product for any particular purpose. The purchaser should independently determine the suitability of the product for the intended application. Unless otherwise stated all ™ and © are trademarks and registered trademarks of Baron Insulation Pty Limited ABN 99 132 459 931.

BTDS3_Revision_1_Issue Date 20062018


BARON
 INSULATION

19 Pascal Road, Seaford, Victoria 3198

03 9776 4006

Page 2 of 2