



DATA SHEET – POLYMAX HVAC

- Thermally bonded polyester fibre insulation specifically designed for lining internal rigid AC ducting to provide high performance acoustic absorption across a broad range of frequencies and thermal resistance for external rigid duct lagging.
- Non-friable, therefore reducing the risk of erosion and fibre breakage leading to contamination of conditioned air.
- Made in a range of densities – LD (low density), MD (medium density), HD (high density), XHD (extra high density) and thicknesses, with fibres specifically engineered to provide maximum thermal and acoustic performance.
- Available in standard white colour or can be laminated with plain or perforated foil or black scrim fabric for internal and external lining applications.

Applications

Polymax HVAC LD is designed for external rigid duct lagging and gives thermal performance in compliance with AS 4859.1.

Polymax HVAC HD & XHD are designed for internal rigid duct lining and give acoustic performance in compliance with AS 1045 and thermal resistance in compliance with AS 4859.1.

Cutting and pinning

Polymax HVAC can be cut with a Stanley knife, rotary fabric cutting machines or angle grinders fitted with thin cutting disk.

Polymax HVAC can be fixed using conventional weld pins by holding the material over the weld pin and gently tapping the insulation with a rubber mallet so that the pin pierces the product.

Environmental benefits

Polymax HVAC is manufactured from thermally bonded polyester fibre with a minimum of 80% recycled fibre content from post-consumer PET packaging such as empty drink bottles. The product is 100% recyclable and has very high reuse potential as insulation.

- No chemicals or phenol formaldehyde resin binders are used in manufacture.
- Odourless and contains no harmful volatile organic compounds (VOC).
- No waste is generated in manufacture.
- No water or ozone-depleting gases are used in manufacture.
- No chlorides are present in the product.
- Martini's product stewardship programme can be viewed at www.polymaxinsulation.com.au
- Suitable for use in Green Star™ projects.





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Physical description and properties

Volatiles:	Nil		
Specific Gravity:	1.38		
Flash Point:	None allocated		
Other Properties:	Non-allergenic, low irritant, low flame response, resilient		
Ingredients:	Organic, long chain synthetic polymer		
Max Service Temp:	150°C		
Alkalinity:	pH 7.8 (pH 7 is neutral)		
Moisture Absorption:	Exposure to an atmosphere of 50°C & 95% RH for four days gives moisture absorption of less than 0.2% by volume		
Fire Resistance	The following results were obtained when Martini Industries Polymax was subjected to early fire hazard testing in accordance with Australian Standards AS 1530.3. Polymax meets all requirements of the BCA for all insulation applications	Ignitability	0
		Spread of Flame	0
		Heat Evolved	0
		Smoke Developed	0-1

Acoustic performance to AS 1045

Frequencies hz	125	250	500	1000	2000	4000	NRC
HVAC HD 25	0.10	0.30	0.60	0.80	0.90	0.90	0.65
HVAC HD 50	0.25	0.55	1.00	1.00	1.00	1.00	0.95
HVAC HD 75	0.40	0.85	1.00	1.00	1.00	1.00	1.05
HVAC XHD 25*	0.15	0.35	0.60	0.80	0.85	0.95	0.70
HVAC XHD 50	0.20	0.60	1.00	1.00	0.95	0.95	0.90

Thermal performance and pack specifications

Standard sizes and packaging (Can be made in other sizes to order)	Thickness mm	Length/width m	Calculated R-Value
HVAC LD 25	25	1.2 x 15	0.55
HVAC LD 50	50	1.2 x 10	1.1
HVAC LD 65	65	1.2 x 8	1.5
HVAC LD 75	75	1.2 x 8	1.8
HVAC HD 25	25	2.4 x 1.2	0.7
HVAC HD 50	50	2.4 x 1.2	1.4
HVAC HD 75	75	2.4 x 1.2	2.1
HVAC XHD 25*	25	2.4 x 1.2	0.7
HVAC XHD 50	50	2.4 x 1.2	1.5

*Acoustic performance based on empirical data and expert opinion.

Disclaimer: The information in this brochure is believed to be true at the time of publication. Martini Industries Pty Ltd reserves the right to change specifications without notice, and have no obligation or liability for persons misrepresenting or misusing this information in any manner whatsoever.

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