

## Martini Absorb

- Thermally bonded polyester fibre insulation specifically designed to provide high performance sound absorption across a range of frequencies.
- Made in a range of densities and thicknesses with fibre blends specifically engineered to provide maximum thermal and acoustic performance in many diverse commercial, residential, community and industrial applications.
- Non-irritant and does not require any protective clothing or masks during installation.
- Available in standard white colour. Black or grey available upon request.

## Applications

Absorb is ideal for use behind perforated panelling and ceilings in sports halls, cinemas, studios, industrial enclosures, HVAC ducts, silencers or plant rooms. It is highly effective at reducing echo in rooms and provides consistent sound absorption across the speech range frequencies. Absorb can also be laid above suspended ceilings to reduce flanking noise between rooms.

Absorb can also be used behind decorative woven fabrics as acoustic panels or baffles to cut reverberation and echo in commercial areas where hard surfaces predominate and cause unwanted noise.

## Environmental Benefits and Credentials

Absorb is manufactured from thermally bonded polyester fibre with up to 80% recycled fibre content from post-consumer PET packaging such as empty drink bottles.

- GreenTag<sup>Cert</sup>™ certified
- Environmental Product Declaration (EPD) Certified in accordance with ISO 14025
- Product Health Declaration (PHD) certified
- Suitable for Green Star™ projects
- No red list chemicals are present
- No ozone-depleting gases are used during the manufacturing process
- Volatile organic compounds (VOCs) generated in the manufacturing process is classified as low (0.01 mg/m<sup>3</sup>)s
- Safe, non-irritant, non-toxic, and non-allergenic
- Products are 100% recyclable
- High reuse potential



Martini's Product Stewardship Program can be viewed at [www.csrmartini.com.au](http://www.csrmartini.com.au).

## Acoustic Performance Tested in accordance with AS/ISO 354 – 2006

Frequencies	125hz	250hz	500hz	1000hz	2000hz	4000hz	Alpha W	NRC
MD 25	0.14	0.33	0.59	0.79	0.84	0.89	0.60	0.65
MD 50	0.24	0.54	0.90	0.98	1.01	1.06	0.85	0.85
HD 25	0.12	0.29	0.62	0.78	0.91	0.92	0.60	0.65
HD 50	0.22	0.54	1.02	1.07	1.04	1.11	0.90	0.95
HD 75	0.41	0.85	1.15	1.11	1.07	1.16	1.00	1.05
HD 100	0.54	1.12	1.13	0.97	0.94	0.99	1.00	1.00
XHD 25*	0.15	0.35	0.60	0.80	0.85	0.95	0.70	0.70
XHD 50	0.19	0.62	1.01	1.02	0.98	0.96	0.90	0.90
XHD 75*	0.45	0.80	1.00	1.00	1.00	1.00	1.00	1.00
XHD 100	0.60	1.18	1.15	0.99	1.00	1.01	1.00	1.10
XXHD 30	0.11	0.42	0.76	0.89	0.86	0.88	0.70	0.70
XXHD 50	0.25	0.65	0.95	0.95	0.95	0.95	0.95	0.90
XXHD 75	0.40	0.87	0.96	0.95	0.87	0.89	1.00	0.95

\*Opinion derived from empirical data.



### Flow Resistivity

Tested in accordance with ASTM C 522-03

Product	MKS RAYL/M
Absorb HD	7,994
Absorb XHD	14,693
Absorb XXHD	21,008

### Martini Absorb sheet product information

Product	Thickness (mm)	Length (mm)	Width (mm)	Sheets per pack	m <sup>2</sup> per pack	R Value*	White Product Code	Black Product Code
Absorb MD 25	25	2400	1200	12	34.56	0.6	130537	133525
Absorb MD 50	50	2400	1200	6	17.28	1.2	130538	133526
Absorb MD 75	75	2400	1200	4	11.52	1.9	130539	133527
Absorb MD 100	100	2400	1200	3	8.64	2.5	130540	133528
Absorb HD 25	25	2400	1200	12	34.56	0.7	130541	133529
Absorb HD 50	50	2400	1200	6	17.28	1.4	130542	133530
Absorb HD 75	75	2400	1200	4	11.52	2.1	130543	133531
Absorb HD 100	100	2400	1200	3	8.64	2.7	130544	133532
Absorb XHD 25	25	2400	1200	10	28.80	0.7	130567	133533
Absorb XHD 50	50	2400	1200	6	17.28	1.5	130546	133472
Absorb XHD 75	75	2400	1200	4	11.52	2.2	130547	133534
Absorb XHD 100	100	2400	1200	3	8.6	3.0	130548	131953
Absorb XXHD 30	30	2400	1200	10	28.8	1.0	141444	141445
Absorb XXHD 50	50	2400	1200	3	8.64	1.5	141443	153352
Absorb XXHD 75	75	2400	1200	2	5.76	2.2	153355	153353

\*Calculated R-Value (Km<sup>2</sup>/W)

### Physical description and properties

<b>Flash point:</b>	None allocated												
<b>Other properties:</b>	Non-allergenic, low irritant, low flame response, resilient												
<b>Ingredients:</b>	Organic, long chain synthetic polymer												
<b>Max service temp:</b>	150°C												
<b>Alkalinity:</b>	pH 7.8 (pH 7 is neutral)												
<b>Moisture absorption:</b>	Exposure to an atmosphere of 50°C and 95% RH for four days gives moisture absorption of less than 0.2% by volume												
<b>Fire resistance:</b>	<p>Tested to AS ISO 9705 Corner Burn in accordance with AS 5637.1</p> <p>The following results were obtained when CSR Martini product was subjected to early fire hazard testing in accordance with Australian Standards AS 1530.3</p> <table border="1"> <thead> <tr> <th colspan="2">Group 1</th> </tr> </thead> <tbody> <tr> <td>SMOGRA not more than 100m<sup>2</sup>/s<sup>2</sup> x 1000</td> <td></td> </tr> <tr> <td>Ignitability</td> <td>0</td> </tr> <tr> <td>Spread of Flame</td> <td>0</td> </tr> <tr> <td>Heat Evolved</td> <td>0</td> </tr> <tr> <td>Smoke Developed</td> <td>0-1</td> </tr> </tbody> </table>	Group 1		SMOGRA not more than 100m <sup>2</sup> /s <sup>2</sup> x 1000		Ignitability	0	Spread of Flame	0	Heat Evolved	0	Smoke Developed	0-1
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