

Technical Data Sheet



Thermal	
Thermal Conductivity	0.039 Wm ⁻¹ K ⁻¹
Density	18 kg/m ³
Specific Heat Capacity	1800 Jkg ⁻¹ K ⁻¹
Vapour Resistivity	9 MNsg-1m ⁻¹

Material Protection	
Mould Resistance CUAP 2002-01-25	Pass
Moth/Beetle Proofing ISO 3998	Pass

Fire	
BS 5803-4, Flammability & Smoulder Resistance	Pass
EN11925-2, Reaction to Fire	Pass
Fire Classification	EuroClass E

Physical	
Recoverability and thickness, EN 823	Pass
Dimensional stability to EN 1604	Pass

Hygrothermal						
Porosity			45.8%			
'Surface' water absorption coefficient (kg/m ² . h ^{0.5})			0.99 (18%)			
'Edge' water absorption coefficient (kg/m ² . h ^{0.5})			0.64 (8.8%)			
Water Vapour Resistance Factor, μ			(-) Dry:1.27 (4.9%) (-) Wet:0.80 (11.8%)			
Vapour sorption:						
Relative Humidity						
Sorption	0%w/w	30%w/w	50%w/w	75%w/w	95%w/w	
Moisture Content	0.00%	4.56%	7.21%	10.07%	14.84%	
Deviation		(3.3%)	(7.3%)	(7.3%)	(1.9%)	
Relative Humidity						
Desorption	95%w/w	75%w/w	50%w/w	30%w/w	0%w/w	
Moisture Content	14.84%	11.42%	8.62%	6.09%	0.00%	

Eden Renewable Innovations Ltd

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Environmental	
GWP (A1-A3) total	0.05 kgCO _{2e} R1 Functional Unit
GWP (A1-C4) total	0.95 kgCO _{2e} R1 Functional Unit
GWP (A1-D) total	-0.31 kgCO _{2e} R1 Functional Unit
Recycled Content	20%
Recyclable	Yes
EPD registration no	S-P-04468
EPD valid to	31/10/26
Manufactured to ISO 14001	Certificate No: 23/3478

Acoustic							
Sound absorption			NRC 1.05 @ 100mm				
Sound reduction			Rw 40dB @ 75mm				
Can be used to achieve airborne sound reduction of R _w			41dB				
Freq HZ		125	250	500	1000	2000	4000
Cosywool 50mm	Absorption Coefficient	0.2	0.4	0.65	0.75	0.85	0.95
Cosywool 75mm		0.25	0.6	0.85	0.9	0.95	1
Cosywool 100mm		0.45	0.85	1	1	1	1
Cosywool 140mm		0.6	0.9	0.95	1	1	1

Air Quality	
TVOC	9 µg/m ³ @ 3 days, n.d. @ 28 days
Carcinogenic compounds	n.d. @ 3days, n.d. @ 28days
Formaldehyde	<2 µg/m ³ @ 3 days, <2 µg/m ³ @ 28 days

Quality	
Manufactured to ISO 9001	Certificate No: 23/3477
Dimensional stability to EN 1604	Pass

Dimensions	
Thicknesses (+20mm/-0mm)	25, 50, 75, 100, 140, 150 mm
Widths (+20mm/-10mm)	370 & 570 mm
Roll Lengths (+5%/-0%)	12.0 (25mm)13.0 m (50mm), 8.5 m(75mm), 6.5 m (100 mm), 4.6 m (140mm), 4.3 m (150mm)

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