# Thermafleece CosyWool Roll Technical Data Sheet



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

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

Fire		
BS 5803-4, Flammability & Smoulder	Pass	
Resistance		
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 ab	sorption coeffici	ent (kg/m².	0.99 (18%)		
h <sup>0.5</sup> )					
'Edge' water abso	rption coefficient	t (kg/m² .	0.64 (8.8%)		
h <sup>0.5</sup> )					
Water Vapour Resistance Factor, µ		(-) Dry:1.27 (4.9	9%) (-) Wet:0.80	(11.8%)	
Vapour sorption:					
Relative H			umidity		
Sorption	0%w/w	30%w/w	50%w/w	75%w/w	95%w/w
Moisture	0.00%	4.56%	7.21%	10.07%	14.84%
Content					
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	14.84%	11.42%	8.62%	6.09%	0.00%
Content					
Deviation	(1.9%)	(3.1%)	(2.7%)	(7.2%)	

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Environmental	
GWP (A1-A3) total	0.05 kgCO <sub>2</sub> e R1 Functional Unit
GWP (A1-C4) total	0.95 kgCO <sub>2</sub> e R1 Functional Unit
GWP (A1-D) total	-0.31 kgCO <sub>2</sub> e 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	n It	0.2	0.4	0.65	0.75	0.85	0.95
Cosywool 75mm	ptio	0.25	0.6	0.85	0.9	0.95	1
Cosywool 100mm	Absorption Coefficient	0.45	0.85	1	1	1	1
Cosywool 140mm	A' C	0.6	0.9	0.95	1	1	1

Air Quality	
TVOC	9 μg/m³ @ 3 days, n.d. @ 28 days
Carcinogenic compounds	n.d. @ 3days, n.d. @ 28days
Formaldehyde	<2 µg/m <sup>3</sup> @ 3 days, <2 µg/m <sup>3</sup> @ 28 days

Quality	
Manufactured to ISO 9001	Certificate No: 23/3477

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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