

# Thermafleece CosyWool Roll

## Technical Data Sheet



<b>Thermal</b>	
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>

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

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

<b>Physical</b>	
Recoverability and thickness, EN 823	Pass
Dimensional stability to EN 1604	Pass

<b>Hygrothermal</b>					
Porosity	45.8%				
'Surface' water absorption coefficient (kg/m <sup>2</sup> . h <sup>0.5</sup> )	0.99 (18%)				
'Edge' water absorption coefficient (kg/m <sup>2</sup> . h <sup>0.5</sup> )	0.64 (8.8%)				
Water Vapour Resistance Factor, $\mu$	(-) 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%
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

Acoustic							
Sound absorption				NRC 1.05 @ 100mm			
Sound reduction				Rw 40dB @ 75mm			
Can be used to achieve airborne sound reduction of R <sub>w</sub>				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 <sup>3</sup> @ 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 & 14001	

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)