

MycoComposite

Mycelium Panel Substrate Comparison

584

Substrate

Aspen Shavings

Suggested Uses

Partitions
Acoustic Panels

Density

8.5 lb/ft³
140 kg/m³

Compression

2-4 psi
15-28 kPa

Elasticity

40-70 psi
280-400 kPa

Tension

4-6 psi
28-40 kPa

570

Substrate

Aspen Chips

Suggested Uses

Heavy Blocking/Bracing
Outdoor Layment

Density

12 lb/ft³
190 kg/m³

Compression

30-60 psi
200-410 kPa

Elasticity

500-610 psi
3400-4200 kPa

Tension

6-20 psi
40-140 kPa

029

Substrate

Hemp

Suggested Uses

Packaging
Model Making

Density

7 lb/ft³
110 kg/m³

Compression

10-22 psi
70-150 kPa

Elasticity

130-250 psi
900-1700 kPa

Tension

3-4 psi
20-28 kPa

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R-Value/inch

3.1 °Fft²h/BTU

Thermal Conductivity

0.027 BTU/h-ft-°F
0.047 W/m-K

**Noise Reduction
Coefficient**

0.9

Flexural Modulus

800-1400 psi
5500-9700 kPa

Flexural Strength

11-16 psi
76-110 kPa

Fire Rating

Pending

570

R-Value/inch

2.4 °Fft²h/BTU

Thermal Conductivity

0.035 BTU/h-ft-°F
0.061 W/m-K

**Noise Reduction
Coefficient**

0.4

Flexural Modulus

1500-2300 psi
10000-16000 kPa

Flexural Strength

18-30 psi
120-210 kPa

Fire Rating

No Rating

029

R-Value/inch

3.5 °Fft²h/BTU

Thermal Conductivity

0.024 BTU/h-ft-°F
0.042 W/m-K

**Noise Reduction
Coefficient**

0.6

Flexural Modulus

1100-2000 psi
7200-13000 kPa

Flexural Strength

15-29 psi
100-200 kPa

Fire Rating

Class A

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