

## Mycelium Product specifications

Metric	Standard	Performance
Compressive strength		
(kPa,10% Compression)	ASTM D695	2,1 - 46
Compressive strength		
(x10⁵ Pa,50% Compression)	ASTM D695	4,9-17,9
Flexural strength		
(x10⁵ Pa)	ASTM D3575	1,4-1,9
Elastic modulus		
(x10 <sup>6</sup> Pa)	ASTM D3575	1,4-1,7
Density		
(kg/m³)	AVANS*	115,5
Thermal conductivity	ASTM C155	0,05760
(W/m*K)	AVANS**	0,049
Water absorption		
(Class Vapor Retarder)	ASTM E96	Class 1
Water vapor transmission rate		
(metric perm)	ASTM E96	0,013 - 0,02
Fire resistance		
(Class)	ASTM E84	Class A
Flame spread		
(-)	ASTM E84	20
Smoke developed		
(-)	ASTM E84	50
Aldehyde & VOC emissions		
(ppm)	ASTM E1333	<0,01-0,03
Peak deceleration	75cm drop-5cm cushion	61
(g)  Mycelium products (aka Mushroom Packaging) is	6,8kPa, avg of 2-4 <sup>th</sup> drops	

Mycelium products (aka Mushroom Packaging) is a biomaterial developed and patented by Ecovative Design, LLC. Cushioning, structural and thermal conductivity tests performed by Ecovative Design Labs. Testing for fire properties conducted by the Packaging Science Department at Rochester Institute of Technology.

Grown.bio is a biotech company in Hedel, the Netherlands. Grown BV is the European licensee of Ecovative Design, LLC. Grown uses mycelium technology pioneered by Ecovative.

<sup>\*</sup> Density tests performed by AVANS University of Applies Sciences

<sup>\*\*</sup> A parallel test, performed by AVANS University of Applies Sciences on samples made by Grown BV, show a different number then the test performed by the Rochester Institute of Technology on a Ecovative sample. So the test were performed on different samples made by different production methods.