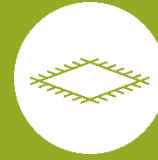



# TECHNICAL DATASHEET

## Mesh Preg Laminates



### Product Data

Product Id:	3711010001	
Roll size:	1200 mm x 25 m	
Thickness:	0.4 mm	
Fabric Weight:	200 g/m <sup>2</sup>	
Thermoforming temp.:	>120 °C	

### Product Information

Resin type	UV resistance	Fiber material	Resin content	Design/Colour	Woven type
Polylactic acid	Good	Flax	50%	Natur	Satin

### Mechanical Properties

Tensile Strength - $X_T$	Compressive Strength - $X_C$	In-Plane Shear Strength - $S_{12}$	Young's Modulus - $E_{11}$	In-Plane Shear Modulus - $G_{12}$	Poisson's Ratio - $\nu_{12}$
ASTM D3039	ASTM D3410	ASTM D4255	ASTM D3039	ASTM D4255	ASTM D3039
58.98 MPa	56.40 MPa	24.92 MPa	4275.53 MPa	1175.79 MPa	0.1379

### Thermal Properties

Coefficient of expansion - $\alpha$	Heat Emission - $Q_{hm}$	Heat Release Rate - $HRR$	Glass Transition Temperature - $T_g$	Melting Temperature - $T_m$	Vicat Softening Temperature - $T_v$
ASTM D696	ISO 13927	ISO 13927	ASTM D3417	ASTM D3418	ASTM D1525
$8.5 \cdot 10^{-5} \cdot K^{-1}$	$26.8 \pm 2$ MJ	$127 \pm 4$ KW/m <sup>2</sup>	60-63 °C	145-155 °C	60 °C

### Other Properties

Flame retardant	This material has been certified by ISO 4589-1, ISO 5660-1, ISO 9772, ISO 9773 and UL94 v0				
Good barrier properties for O <sub>2</sub> , Aqua	WVTR	[g/m <sup>2</sup> /day]	~172	ASTM F1249, ISO 15106-2 ASTM D3985, ISO 15105-2	
	OTR	[ml/m <sup>2</sup> /24hour]	~500		

### Recommended Applications



Wall panel



Furniture



Automotive Industry



Technical application



Construction



Sport equipment

Meshlin Composites Plc.  
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www.meshlin.com

# TECHNICAL DATASHEET

Mesh Preg Laminates – High Heat



## Product Data

Product Id:	3711010001	
Roll size:	1200 mm x 25 m	
Thickness:	0.4 mm	
Fabric Weight:	200 g/m <sup>2</sup>	
Thermoforming temp.:	>120 °C	

## Product Information

Resin type	UV resistance	Fiber material	Resin content	Design/Colour	Woven type
Polylactic acid	Good	Flax	50%	Natur	Satin

## Mechanical Properties

Tensile Strength - $X_T$	Compressive Strength - $X_C$	In-Plane Shear Strength - $S_{12}$	Young's Modulus - $E_{11}$	In-Plane Shear Modulus - $G_{12}$	Poisson's Ratio - $\nu_{12}$
ASTM D3039	ASTM D3410	ASTM D4255	ASTM D3039	ASTM D4255	ASTM D3039
58.98 MPa	56.40 MPa	24.92 MPa	4275.53 MPa	1175.79 MPa	0.1379

## Thermal Properties

Coefficient of expansion - $\alpha$	Heat Emission - $Q_{hm}$	Heat Release Rate - $HRR$	Glass Transition Temperature - $T_g$	Melting Temperature - $T_m$	Vicat Softening Temperature - $T_v$
ASTM D696	ISO 13927	ISO 13927	ASTM D3417	ASTM D3418	ASTM D1525
$8.5 \cdot 10^{-5} \cdot K^{-1}$	$26.8 \pm 2$ MJ	$127 \pm 4$ KW/m <sup>2</sup>	100 °C	145-155 °C	60 °C

## Other Properties

Flame retardant	This material has been certified by ISO 4589-1, ISO 5660-1, ISO 9772, ISO 9773 and UL94 v0				
Good barrier properties for O <sub>2</sub> , Aqua	WVTR	[g/m <sup>2</sup> /day]	~172	ASTM F1249, ISO 15106-2 ASTM D3985, ISO 15105-2	
	OTR	[ml/m <sup>2</sup> /24hour]	~500		

## Recommended Applications



Wall panel



Furniture



Automotive Industry



Technical application



Construction



Sport equipment

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