

Ekoa TP1 Technical Data Sheet

Lingrove Ekoa is a fiber reinforced pre-impregnated composite material with high performance and low environmental impact. This product is made from flax fabrics and thermoplastic resin.

General Specifications

Fiber Type	Flax (EU)
Construction	0° (UD)
Fabric weights	3.2 oz/yd ² (110 gsm +/- 5%), 3.7oz/yd ² (125 gsm +/- 5%)
Standard widths	15.75 inch (400 mm), 20.5 inch (520mm), 57 inch (1450mm)
Standard roll length	295 ft (90 m)

Mechanical properties

Properties measured on samples with 2 layers aligned at 0°.

Tensile Modulus (MD)	724 Mpa	105 ksi
Tensile Strength (MD)	31.0 Mpa	4500 psi
Compression Modulus	TBD	TBD
Compression Strength	TBD	TBD

Processing Guidelines

Compatible with compression molding and vacuum-forming.

Starting 3D Molding Parameters:

Preheat	Pressure	Press Time
300F Oven Temp, 3min preheat	10+ psi	30s

3D Molding parameters vary based on tooling and processing equipment. Please [contact](#) Lingrove for detailed recommendations based on your application.

Storage

Store in a low relative humidity environment and out of direct sunlight.

Health and Safety

Refer to relevant SDS for more information regarding safe handling and processing of Ekoa.