



Ekoa TP2 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. The Ekoa TP2 line covers all 'Ekoa Auto' products.

General Specifications

Fiber Type	Flax (EU)
Construction	0° (UD)
Material Density	12.7 oz/yd ² (430gsm), 18.0 oz/yd ² (610gsm)
Standard widths	15.75" (400 mm), 57" (1450mm)
Standard roll length	295 ft (90 m)
Standard thickness	0.014" (0.36mm), 0.022" (0.56mm)

Mechanical properties

Properties measured on samples with 0.022" thickness product aligned at 0°.

Tensile Modulus (MD)	724 Mpa	105 ksi
Tensile Strength (MD)	257 Mpa	37.3 ksi
Compression Modulus	TBD	TBD
Compression Strength	TBD	TBD

Processing Guidelines

Compatible with compression molding and vacuum-forming. Use IR, convection, or in-mold heating processes. Short transfer and mold close times are critical for successful molding, as the material loses heat quickly.

General 3D Molding Parameters:

Preheat	Mold Temp	Pressure	Press Time
180-200C Oven Temp, 3min preheat	60-100C	10+ psi	15s

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.