

General Mat Line Specifications:

Machine width is 2.44 m (96 in).
 Product basis weight range is from 200 gsm to 3000 gsm.
 Product can be produced in sheet form or in bulk rolls.

Typical Physical/Mechanical Property Characteristics of a Wood Fibre Composite Panel (thermoset resin):

Product Composition	Mat Basis Weight (grams/m ²)	Panel Thickness (mm)	Target Panel Density (g/cm ³)	Modulus of Rupture MOR (psi) (ASTM D1037)	Modulus of Elasticity MOE (psi) (ASTM D1037)
Wood fibre w/long natural or synthetic fibre component	500 to 3000	0.55 to 3.30	0.90	5000 to 8000	450,000 to 750,000

Typical Physical/Mechanical Property Characteristics of an Agricultural Fibre (NFPP) Composite Panel (thermoplastic):

Product Composition	Mat Basis Weight (grams/m ²)	Panel Thickness (mm)	Target Panel Density (g/cm ³)	Tensile Strength psi (ASTM D638)	Flexural Modulus psi (ASTM D790)
Natural fibres such as hemp or flax w/pp synthetic fibres	500 to 3000	0.65 to 3.75	0.80	1800 to 5200	150000 to 500000

Typical Physical/Mechanical Property Characteristics of a Light-weight Reinforced Thermoplastic (LWRT) Composite Panel:

Product Composition	Mat Basis Weight (grams/m ²)	Panel Thickness (mm)	Target Panel Density (g/cm ³)	Tensile Strength psi (ASTM D638)	Flexural Modulus psi (ASTM D790)
Natural fibres such as hemp or flax w/pp synthetic fibres plus fiberglass reinforcement	500 to 3000	0.65 to 3.75	0.80	3200 to 6800	300000 to 650000

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