maplex

FUSION COLLECTION

Maplex MDC is a medium-density, highly formable 100% biobased pressboard produced with unbleached softwood cellulose and cotton fibers. Proprietary fiber blend, board machine settings, and controlled hot-press drying allow monitoring of fiber alignment during sheet formation process and result in a strong, yet flexible and formable material.

KEY PROPERTIES

- Highly shapeable pressboard maintaining the integrity of the outer and inner curve
- Minimal risk of breaking, wrinkling, creping, or fiber separation
- Recyclable

FEATURES AND BENEFITS

- Low-density, highly formable 100% biobased pressboard
- Produced with unbleached softwood cellulose and cotton fibers
- Strong yet flexible and formable material

APPLICATIONS

- Suitable for applications that require tightly curved and/or rounded shapes
- Reinforcement liners for storage/carrying cases
- Residential/commercial containerization of dry substances
- Reinforcement substrate in shoe sole structures

TECHNICAL DATA

				MAPLEX MDC
Properties		**Standard**	**UOM**	**Typical Values**
Thicknesses range			mm	3
Apparent density		ISO 534	g/cm³	1
Moisture		ISO 287	%	≤6
Tensile strength	MD	ISO 1924-2	MPa	72
Tensile strength	CMD	ISO 1924-2	MPa	56
Tensile elongation	MD	ISO 1924-2	%	4.2
Tensile elongation	CMD	ISO 1924-2	%	4.4
Modulus of elasticity in tension	MD	ISO 1924-2	GPa	7.7
Modulus of elasticity in tension	CMD	ISO 1924-2	GPa	6.2

The Technical Data reported here are typical results for routine tests made in the Weidmann Laboratory. If not specified, the values are typical for 3mm material. Additional specific data is available on request.

MD - Machine Direction / CMD - Cross Machine Direction.

Maplex custom thicknesses can be manufactured in any dimension ranging from 1.00mm to 8.00mm. Please contact Customer Services for more information.

This matrix is provided for reference purposes only to consider options for your application. While we recommend certain grades that successfully performed in specific applications, our Engineering team will be happy to work closely with you to review your application requirements and select the grade, prototype if necessary, and develop a solution that works best for you.

Some grades can be used and interchanged across multiple applications successfully, our fiber alignment, sheet forming, and fabrication techniques vary for different grades, which provides us with opportunity to find the Maplex grade most suitable for your project.

Made in Switzerland

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