

MAPLEX MDCC

Maplex MDCC* (medium density cotton calendared) is a medium-density flexible yet strong 100% biobased pressboard which is produced with unbleached softwood cellulose and cotton fibers. Calendering process, when applied, densifies the sheet and slightly smoothes its surface. Calendering is performed in parallel to the sheet's machine direction. Proprietary fiber blend, board machine settings and controlled hot press drying allows monitoring fiber alignment during sheet formation process and results in strong yet flexible and formable material.

KEY PROPERTIES

- Durable, smooth and dimensionally stable pressboard
- Minimal risk of breaking, wrinkling, creping or fiber separation
- Biodegradable and recyclable

KEY FEATURES & BENEFITS

- Calandered medium-density, 100% biobased pressboard
- Produced with unbleached softwood cellulose and cotton fibers
- Protects the roll and printable substrate surface from damage

APPLICATIONS

- Underlay protection sheet in the security printing equipment and punching machines

SHEET SIZES

METRIC (MM)			IMPERIAL (INCHES)		
THICKNESS	TOLERANCES (%)	WIDTH X LENGTH	THICKNESS	TOLERANCES (%)	WIDTH X LENGTH
1	± 6 - 8	3200 x 6300 1065 x 3250	0.039	± 6 - 8	126 x 248 42 x 124
1.5			0.059		
2			0.079		

Master sheet size is able to accommodate variety of custom sizes so please contact us if your projects requires customized sheet sizes.



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TECHNICAL DATA

GRADE			MAPLEX MDCC
PROPERTIES	STANDARD	UOM	TYPICAL VALUES
THICKNESS RANGE		mm	1.55
APPARENT DENSITY	ISO 534	g/cm ³	1.15
MOISTURE	ISO 287	%	≤6
TENSILE STRENGTH MD	ISO 1924-2	MPa	82.5
TENSILE STRENGTH CMD	ISO 1924-2	MPa	63.4
TENSILE ELONGATION MD	ISO 1924-2	%	4.13
TENSILE ELONGATION CMD	ISO 1924-2	%	4.43
MODULUS OF ELASTICITY IN TENSION MD	ISO 1924-2	GPa	7.16
MODULUS OF ELASTICITY IN TENSION CMD	ISO 1924-2	GPa	6.2
MODULUS OF ELASTICITY IN BENDING MD	ISO 1924-2	GPa	-
MODULUS OF ELASTICITY IN BENDING CMD	ISO 1924-2	GPa	-
SHORE D HARDNESS	ISO 868	-	-
NOTCHED IMPACT STRENGTH	ISO 179	kJ/m 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.