maplex AT A GLANCE

GRADE	DESCRIPTION	APPLICATION
MAPLEX P	Highest density grade with dimensional strength and superior mechanical properties.	Paneling, Furniture, Honeycomb, Displays, Signage
MAPLEX MD	Medium density board with superior mechanical properties and dimensional strength.	Paneling, Retail Accessories, Clothing Hangers
MAPLEX MDC	Low density highly formable cellulose/cotton blend for applications requiring flexibility and strength.	Footwear Components, Bins & Recycling Containers
MAPLEX MDCC	Low density calendered cellulose/cotton blend for special applications in security printing industry.	Security Printing Components & Punching Operations
MAPLEX C	Low density grade with superior mechanical properties, dimensional strength and smooth sheet surface.	Paneling, Retail Accessories, Clothing Hangers
MAPLEX FORM	Low density formable pressboard.	Packaging, Bins & Recycling Containers, Clothing Hangers, Sealing
MAPLEX PC	Highest density calandered grade board.	Disposable Cutting Pads

GRADE			MAPLEX P	MAPLEX MD	MAPLEX MDC	MAPLEX MDCC	MAPLEX C	MAPLEX FORM	MAPLEX PC
PROPERTIES	STANDARD	UOM	TYPICAL VALUES						
THICKNESS RANGE		mm	> 1.6 – 3.0	> 1.0 – 3.0	3	1.55	1.3-2.3	1 - 2.3	3.1
APPARENT DENSITY	ISO 534	g/cm^3	1.2	1	1.0	1.15	1.05	0.88	1.2
MOISTURE	ISO 287	%	≤6	≤6	≤6	≤6	4.9	4.9	≤6
TENSILE STRENGTH MD	ISO 1924-2	MPa	124	90	72	82.5	82.5	69	110
TENSILE STRENGTH CMD	ISO 1924-2	MPa	92	70	56	63.4	48.2	41	85
TENSILE ELONGATION MD	ISO 1924-2	%	3.9	3.4	4.2	4.13	10	10	2.5
TENSILE ELONGATION CMD	ISO 1924-2	%	4.6	3.8	4.4	4.43	13	13	3.5
MODULUS OF ELASTICITY IN TENSION MD	ISO 1924-2	GPa	13	10	7.74	7.16	2.4	2.3	13
MODULUS OF ELASTICITY IN TENSION CMD	ISO 1924-2	GPa	10	8	6.29	6.2	1.4	1.3	10
MODULUS OF ELASTICITY IN BENDING MD	ISO 1924-2	GPa	-	-	-	-	-	-	4
MODULUS OF ELASTICITY IN BENDING CMD	ISO 1924-2	GPa	-	-	-	-	-	-	3
SHORE D HARDNESS	ISO 868	-	-	-	-	-	-	-	84
NOTCHED IMPACT STRENGTH	ISO 179	kJ/m^2	-	-	-	-	-	-	13

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. For specific Maplex grade thickness range please refer to the grade specific Technical Data Sheet.

For more information please contact Customer Services.

This matrix is provided for reference purposes only to consider options for your application. While we recommend certain grades which 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 which work 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.